

# LAMPIRAN

## CODING PROGRAM

Desain menu utama

```
<?xml version="1.0"
encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout_width="match_parent"

android:layout_height="match_parent"

android:background="@drawable/bg"

tools:context="com.enwif.igro.Main"

tools:layout_editor_absoluteX="0dp"

tools:layout_editor_absoluteY="81dp">

    <ImageButton

        android:id="@+id/btnQr1"

        android:layout_width="0dp"

        android:layout_height="0dp"

        android:layout_marginBottom="8dp"

        android:layout_marginEnd="8dp"

        android:layout_marginLeft="8dp"

        android:layout_marginRight="8dp"

        android:layout_marginStart="8dp"

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        android:scaleType="centerInside"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:srcCompat="@drawable/icon_1"

        <ImageButton

            android:id="@+id/btnQr2"

            android:layout_width="0dp"

            android:layout_height="0dp"

            android:layout_marginBottom="8dp"

            android:layout_marginEnd="8dp"

            android:layout_marginLeft="8dp"

            android:layout_marginRight="8dp"

            android:layout_marginStart="8dp"

            android:layout_marginTop="8dp"

            android:contentDescription="@string/strBlank"

            android:scaleType="centerInside"

            app:layout_constraintBottom_toBottomOf="parent"

            app:layout_constraintLeft_toLeftOf="parent"

            app:layout_constraintRight_toRightOf="parent"

            app:layout_constraintTop_toTopOf="parent"

            app:srcCompat="@drawable/icon_1"

            />

        />

    />
```

```

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toLeftOf="@+id/guideline"

app:layout_constraintTop_toTopOf="@+id/guideline2"

app:srcCompat="@drawable/icon_2"
/>

```

```

<ImageButton

android:id="@+id/btnQr3"

android:layout_width="0dp"

android:layout_height="0dp"

android:layout_marginBottom="8dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

android:layout_marginStart="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

android:scaleType="centerInside"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintLeft_toLeftOf="@+id/guideline"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="@+id/guideline2"

app:srcCompat="@drawable/icon_3"
/>

```

```

<android.support.constraint.Guideline

android:id="@+id/guideline"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:orientation="vertical"

app:layout_constraintGuide_percent="0.5"

tools:layout_editor_absoluteY="0dp"

tools:layout_editor_absoluteX="192dp"
/>

```

```

<android.support.constraint.Guideline

android:id="@+id/guideline2"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:orientation="horizontal"

app:layout_constraintGuide_percent="0.5"

tools:layout_editor_absoluteY="284dp"

tools:layout_editor_absoluteX="0dp"
/>

```

```

<FrameLayout

android:id="@+id/frameLayout"

android:layout_width="0dp"

android:layout_height="50dp"

android:layout_marginBottom="8dp"

android:layout_marginEnd="8dp"

```

```

    android:layout_marginLeft="8dp"
    "

    android:layout_marginRight="8dp"
    "

    android:layout_marginStart="8dp"
    "

    android:background="@drawable/bg_btn_foot"

    app:layout_constraintBottom_toBottomOf="@+id/btnQr1"

    app:layout_constraintHorizontal_bias="0.0"

    app:layout_constraintLeft_toLeftOf="@+id/btnQr1"

    app:layout_constraintRight_toRightOf="@+id/btnQr1">

        </FrameLayout>

        <FrameLayout

            android:layout_width="0dp"

            android:layout_height="50dp"

            android:layout_marginBottom="8dp"

            android:layout_marginLeft="8dp"
            "

            android:layout_marginRight="8dp"
            "

            android:background="@drawable/bg_btn_foot"

            app:layout_constraintBottom_toBottomOf="@+id/btnQr2"

            app:layout_constraintLeft_toLeftOf="@+id/btnQr2"

            app:layout_constraintRight_toRightOf="@+id/btnQr2"

            android:layout_marginStart="8dp"
            "

            android:layout_marginEnd="8dp"

            android:id="@+id/frameLayout3"

            >

                </FrameLayout>

                <TextView

                    android:id="@+id/textView4"

                    android:layout_width="wrap_content"

                    android:layout_height="wrap_content"

                    android:layout_marginBottom="8dp"

                    android:layout_marginLeft="8dp"
                    "

```

```

android:layout_marginRight="8dp"

android:layout_marginTop="8dp"

android:text="@string/iqro1"

android:textColor="@color/colorWhite"

android:textSize="18sp"

android:textStyle="bold"

app:layout_constraintBottom_toBottomOf="@+id/frameLayout"

app:layout_constraintLeft_toLeftOf="@+id/frameLayout"

app:layout_constraintRight_toRightOf="@+id/frameLayout"

app:layout_constraintTop_toTopOf="@+id/frameLayout"

android:layout_marginStart="8dp"

android:layout_marginEnd="8dp"
/>

```

```

<TextView

```

```

android:id="@+id/textView5"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginBottom="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

android:layout_marginTop="8dp"

android:text="@string/iqro2"

android:textColor="@color/colorWhite"

```

```

android:textSize="18sp"

android:textStyle="bold"

app:layout_constraintBottom_toBottomOf="@+id/frameLayout3"

app:layout_constraintLeft_toLeftOf="@+id/frameLayout3"

app:layout_constraintRight_toRightOf="@+id/frameLayout3"

app:layout_constraintTop_toTopOf="@+id/frameLayout3"

android:layout_marginStart="8dp"

android:layout_marginEnd="8dp"
/>

```

```

<TextView

```

```

android:id="@+id/textView6"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginBottom="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

android:layout_marginTop="8dp"

android:text="@string/iqro3"

android:textColor="@color/colorWhite"

android:textSize="18sp"

android:textStyle="bold"

app:layout_constraintBottom_toBottomOf="@+id/frameLayout4"

app:layout_constraintLeft_toLeftOf="@+id/frameLayout4"

app:layout_constraintRight_toRightOf="@+id/frameLayout4"

```

```

rightOf="@+id/frameLayout4"

app:layout_constraintTop_toTopOf="@+id/frameLayout4"

app:layout_constraintVertical_bias="0.488"

android:layout_marginStart="8dp"
p"

android:layout_marginEnd="8dp"
/>

```

```

<ImageButton

android:id="@+id/btnHjy"

android:layout_width="0dp"

android:layout_height="0dp"

android:layout_marginBottom="8dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"
"

android:layout_marginRight="8dp"
p"

android:layout_marginStart="8dp"
p"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

android:scaleType="fitXY"

app:layout_constraintBottom_toTopOf="@+id/guideline2"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toLeftOf="@+id/guideline"

app:layout_constraintTop_toTopOf="parent"

app:srcCompat="@drawable/icon_hjy"
/>

```

```

<FrameLayout

```

```

android:layout_width="0dp"

android:layout_height="50dp"

android:layout_marginBottom="8dp"

android:layout_marginLeft="8dp"
"

android:layout_marginRight="8dp"
p"

android:background="@drawable/bg_btn_foot"

app:layout_constraintBottom_toBottomOf="@+id/btnHjy"

app:layout_constraintLeft_toLeftOf="@+id/btnHjy"

app:layout_constraintRight_toRightOf="@+id/btnHjy"

android:id="@+id/frameLayout20"
">

```

```

</FrameLayout>

```

```

<TextView

android:id="@+id/textView13"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginBottom="7dp"

android:layout_marginLeft="8dp"
"

android:layout_marginRight="8dp"
p"

android:layout_marginTop="8dp"

android:text="@string/hjy"

android:textColor="@color/colorWhite"

android:textStyle="bold"

```

```

app:layout_constraintBottom_toBottomOf="@+id/frameLayout20"

app:layout_constraintHorizontal_bias="0.513"

app:layout_constraintLeft_toLeftOf="@+id/frameLayout20"

app:layout_constraintRight_toRightOf="@+id/frameLayout20"

app:layout_constraintTop_toTopOf="@+id/frameLayout20" />

</android.support.constraint.ConstraintLayout>

```

Coding menu hijaiyah

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout_width="match_parent"

android:layout_height="match_parent">

<android.support.constraint.ConstraintLayout

android:layout_width="match_parent"

android:layout_height="wrap_content">

    <ImageView

android:id="@+id/iv3"

android:layout_width="100dp"

android:layout_height="100dp"

```

```

android:layout_marginStart="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintTop_toTopOf="parent" />

    <ImageView

android:id="@+id/iv2"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

android:layout_marginStart="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintLeft_toRightOf="@+id/iv1"

app:layout_constraintRight_toLeftOf="@+id/iv3"

app:layout_constraintTop_toTopOf="parent" />

    <ImageView

android:id="@+id/iv1"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginTop="8dp"

```

```

        android:contentDescription="@string/strBlank"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

        <ImageView

        android:id="@+id/iv6"

        android:layout_width="100dp"

        android:layout_height="100dp"

        android:layout_marginStart="8dp"

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/iv1" />

        <ImageView

        android:id="@+id/iv5"

        android:layout_width="100dp"

        android:layout_height="100dp"

        android:layout_marginEnd="8dp"

        android:layout_marginLeft="8dp"

        android:layout_marginRight="8dp"

        android:layout_marginStart="8dp"

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        app:layout_constraintLeft_toRightOf="@+id/iv7"

        app:layout_constraintRight_toLeftOf="@+id/iv6"

```

```

        leftOf="@+id/iv6"

        app:layout_constraintTop_toBottomOf="@+id/iv2" />

        <ImageView

        android:id="@+id/iv4"

        android:layout_width="100dp"

        android:layout_height="100dp"

        android:layout_marginEnd="8dp"

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/iv3" />

        <ImageView

        android:id="@+id/iv9"

        android:layout_width="100dp"

        android:layout_height="100dp"

        android:layout_marginStart="8dp"

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/iv4" />

        <ImageView

        android:id="@+id/iv8"

        android:layout_width="100dp"

        android:layout_height="100dp"

        android:layout_marginEnd="8dp"

        android:layout_marginLeft="8dp"

```



```

"

android:layout_marginRight="8d
p"

android:layout_marginStart="8d
p"

android:layout_marginTop="8dp"

android:contentDescription="@s
tring/strBlank"

app:layout_constraintLeft_toRi
ghtOf="@+id/iv7"

app:layout_constraintRight_toL
eftOf="@+id/iv9"

app:layout_constraintTop_toBot
tomOf="@+id/iv5"      />

    <ImageView

android:id="@+id/iv7"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@s
tring/strBlank"

app:layout_constraintRight_toR
ightOf="parent"

app:layout_constraintTop_toBot
tomOf="@+id/iv6"      />

    <ImageView

android:id="@+id/iv12"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginStart="8d
p"

android:layout_marginTop="8dp"

android:contentDescription="@s
tring/strBlank"

```

```

app:layout_constraintLeft_toLe
ftOf="parent"

app:layout_constraintTop_toBot
tomOf="@+id/iv7"      />

    <ImageView

android:id="@+id/iv11"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp
"

android:layout_marginRight="8d
p"

android:layout_marginStart="8d
p"

android:layout_marginTop="8dp"

android:contentDescription="@s
tring/strBlank"

app:layout_constraintLeft_toRi
ghtOf="@+id/iv10"

app:layout_constraintRight_toL
eftOf="@+id/iv12"

app:layout_constraintTop_toBot
tomOf="@+id/iv8"      />

    <ImageView

android:id="@+id/iv10"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@s
tring/strBlank"

app:layout_constraintRight_toR
ightOf="parent"

app:layout_constraintTop_toBot
tomOf="@+id/iv9"      />

```

```

        <ImageView
            android:id="@+id/iv15"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_marginStart="8dp"
            android:layout_marginTop="8dp"
            android:contentDescription="@string/strBlank"
            app:layout_constraintLeft_toLeftOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/iv10" />

        <ImageView
            android:id="@+id/iv14"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_marginEnd="8dp"
            android:layout_marginLeft="8dp"
            android:layout_marginRight="8dp"
            android:layout_marginStart="8dp"
            android:layout_marginTop="8dp"
            android:contentDescription="@string/strBlank"
            app:layout_constraintLeft_toRightOf="@+id/iv13"
            app:layout_constraintRight_toLeftOf="@+id/iv15"
            app:layout_constraintTop_toBottomOf="@+id/iv11" />

        <ImageView
            android:id="@+id/iv13"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_marginEnd="8dp"
            android:layout_marginLeft="8dp"
            android:layout_marginRight="8dp"
            android:layout_marginStart="8dp"
            android:layout_marginTop="8dp"
            android:contentDescription="@string/strBlank"
            app:layout_constraintLeft_toLeftOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/iv13" />

        <ImageView
            android:id="@+id/iv18"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_marginStart="8dp"
            android:layout_marginTop="8dp"
            android:contentDescription="@string/strBlank"
            app:layout_constraintLeft_toLeftOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/iv13" />

        <ImageView
            android:id="@+id/iv17"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_marginEnd="8dp"
            android:layout_marginLeft="8dp"
            android:layout_marginRight="8dp"
            android:layout_marginStart="8dp"
            android:layout_marginTop="8dp"
            android:contentDescription="@string/strBlank"
            app:layout_constraintLeft_toLeftOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/iv13" />

```

```

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        app:layout_constraintLeft_toRightOf="@+id/iv13"

        app:layout_constraintRight_toLeftOf="@+id/iv15"

        app:layout_constraintTop_toBottomOf="@+id/iv14" />

        <ImageView

        android:id="@+id/iv16"

        android:layout_width="100dp"

        android:layout_height="100dp"

        android:layout_marginEnd="8dp"

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/iv15" />

        <ImageView

        android:id="@+id/iv21"

        android:layout_width="100dp"

        android:layout_height="100dp"

        android:layout_marginStart="8dp"

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/iv16" />

        <ImageView

```

```

        android:id="@+id/iv20"

        android:layout_width="100dp"

        android:layout_height="100dp"

        android:layout_marginEnd="8dp"

        android:layout_marginLeft="8dp"

        android:layout_marginRight="8dp"

        android:layout_marginStart="8dp"

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        app:layout_constraintLeft_toRightOf="@+id/iv13"

        app:layout_constraintRight_toLeftOf="@+id/iv15"

        app:layout_constraintTop_toBottomOf="@+id/iv17" />

        <ImageView

        android:id="@+id/iv19"

        android:layout_width="100dp"

        android:layout_height="100dp"

        android:layout_marginEnd="8dp"

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/iv18" />

        <ImageView

        android:id="@+id/iv24"

        android:layout_width="100dp"

        android:layout_height="100dp"

```

```

android:layout_marginStart="8dp"
p"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintTop_toBottomOf="@+id/iv19" />

    <ImageView

android:id="@+id/iv23"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"
"

android:layout_marginRight="8dp"
p"

android:layout_marginStart="8dp"
p"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintLeft_toRightOf="@+id/iv13"

app:layout_constraintRight_toLeftOf="@+id/iv24"

app:layout_constraintTop_toBottomOf="@+id/iv20" />

    <ImageView

android:id="@+id/iv22"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginTop="8dp"

```

```

android:contentDescription="@string/strBlank"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toBottomOf="@+id/iv21" />

    <ImageView

android:id="@+id/iv27"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginStart="8dp"
p"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintTop_toBottomOf="@+id/iv22" />

    <ImageView

android:id="@+id/iv26"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"
"

android:layout_marginRight="8dp"
p"

android:layout_marginStart="8dp"
p"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintLeft_toRightOf="@+id/iv13"

```

```

app:layout_constraintRight_toLeftOf="@+id/iv27"

app:layout_constraintTop_toBottomOf="@+id/iv23" />

    <ImageView

android:id="@+id/iv25"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toBottomOf="@+id/iv24" />

    <ImageView

android:id="@+id/iv30"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginStart="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintTop_toBottomOf="@+id/iv25" />

    <ImageView

android:id="@+id/iv29"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

```

```

android:layout_marginLeft="8dp"

"

android:layout_marginRight="8dp"

"

android:layout_marginStart="8dp"

"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintLeft_toRightOf="@+id/iv13"

app:layout_constraintRight_toLeftOf="@+id/iv30"

app:layout_constraintTop_toBottomOf="@+id/iv26" />

    <ImageView

android:id="@+id/iv28"

android:layout_width="100dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toBottomOf="@+id/iv27" />

</android.support.constraint.ConstraintLayout>

</ScrollView>

```

Coding menu Iqro'

```

<?xml                      version="1.0"
encoding="utf-8" ?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"

```

```

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout_width="match_parent"

android:layout_height="match_parent"

tools:context="com.enwif.igro.cnt.Igro">

    <ImageView

        android:id="@+id/ivHead"

        android:layout_width="0dp"

        android:layout_height="200dp"

        android:background="@drawable/head_qr1"

        android:contentDescription="@string/strBlank"

        app:layout_constraintHorizontal_bias="0.0"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <FrameLayout

        android:id="@+id/frameLayout2"

        android:layout_width="0dp"

        android:layout_height="50dp"

        android:background="@drawable/bg_btn_foot"

        app:layout_constraintBottom_toBottomOf="@+id/ivHead"

        app:layout_constraintHorizontal_bias="0.0"

        app:layout_constraintLeft_toLeftOf="parent"

```

```

ftOf="@+id/ivHead"

        app:layout_constraintRight_toRightOf="@+id/ivHead">

    </FrameLayout>

    <TextView

        android:id="@+id/tvHead"

        android:layout_width="0dp"

        android:layout_height="wrap_content"

        android:layout_marginBottom="8dp"

        android:layout_marginEnd="8dp"

        android:layout_marginStart="8dp"

        android:layout_marginTop="8dp"

        android:text="@string/strBlank"

        android:textColor="@color/colorWhite"

        android:textSize="18sp"

        android:textStyle="bold"

        app:layout_constraintBottom_toBottomOf="@+id/frameLayout2"

        app:layout_constraintLeft_toLeftOf="@+id/frameLayout2"

        app:layout_constraintRight_toRightOf="@+id/frameLayout2"

        app:layout_constraintTop_toTopOf="@+id/frameLayout2" />

    <android.support.constraint.Guideline

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:id="@+id/guideline3"

```

```

android:orientation="vertical"

app:layout_constraintGuide_percent="0.32"

tools:layout_editor_absoluteY="0dp"

tools:layout_editor_absoluteX="123dp" />

```

```

<android.support.constraint.Guideline

android:id="@+id/guideline4"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:orientation="horizontal"

app:layout_constraintGuide_percent="0.61" />

```

```

<android.support.constraint.Guideline

android:id="@+id/guideline5"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:orientation="vertical"

app:layout_constraintGuide_percent="0.68"

tools:layout_editor_absoluteY="0dp"

tools:layout_editor_absoluteX="261dp" />

```

```

<ImageButton

android:id="@+id/btnRead"

android:layout_width="0dp"

```

```

android:layout_height="0dp"

android:layout_marginBottom="7dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

```

```

android:layout_marginStart="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

android:scaleType="centerInside"

```

```

app:layout_constraintBottom_toTopOf="@+id/guideline4"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toLeftOf="@+id/guideline3"

app:layout_constraintTop_toBottomOf="@+id/ivHead"

app:layout_constraintVertical_bias="0.0"

app:srcCompat="@drawable/icon_read" />

```

```

<FrameLayout

android:id="@+id/frameLayout6"

android:layout_width="0dp"

android:layout_height="50dp"

android:layout_marginBottom="8dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

```

```

p"

android:layout_marginStart="8d
p"

android:background="@drawable/
bg_btn_foot"

app:layout_constraintBottom_to
BottomOf="@+id/btnRead"

app:layout_constraintLeft_toLe
ftOf="@+id/btnRead"

app:layout_constraintRight_toR
ightOf="@+id/btnRead">

    </FrameLayout>

    <TextView

android:id="@+id/textView"

android:layout_width="wrap_con
tent"

android:layout_height="wrap_co
ntent"

android:layout_marginBottom="8
dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp
"

android:layout_marginRight="8d
p"

android:layout_marginStart="8d
p"

android:layout_marginTop="8dp"

android:text="@string/read"

android:textColor="@color/colo
rWhite"

android:textSize="@dimen/dmnTi
tleBtn"

android:textStyle="bold"

app:layout_constraintBottom_to
BottomOf="@+id/frameLayout6"

app:layout_constraintHorizontal
l_bias="0.428"

app:layout_constraintLeft_toLe
ftOf="@+id/frameLayout6"

app:layout_constraintRight_toR
ightOf="@+id/frameLayout6"

app:layout_constraintTop_toTop
Of="@+id/frameLayout6"

app:layout_constraintVertical_
bias="0.5" />

    <ImageButton

android:id="@+id/btnEval"

android:layout_width="0dp"

android:layout_height="0dp"

android:layout_marginBottom="8
dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp
"

android:layout_marginStart="8d
p"

android:layout_marginTop="8dp"

android:contentDescription="@s
tring/strBlank"

android:scaleType="centerInsid
e"

app:layout_constraintBottom_to
TopOf="@+id/guideline4"

app:layout_constraintLeft_toLe
ftOf="@+id/guideline3"

app:layout_constraintTop_toBot
tomOf="@+id/ivHead"

app:srcCompat="@drawable/icon_
evaluation"

app:layout_constraintVertical_
bias="0.0"

app:layout_constraintRight_toL
eftOf="@+id/guideline5"

```



```

        android:layout_marginRight="8dp"
    </FrameLayout>

    <FrameLayout

        android:id="@+id/frameLayout7"

        android:layout_width="0dp"

        android:layout_height="50dp"

        android:layout_marginBottom="8dp"

        android:layout_marginEnd="8dp"

        android:layout_marginLeft="8dp"

        android:layout_marginRight="8dp"

        android:layout_marginStart="8dp"

        android:background="@drawable/bg_btn_foot"

        app:layout_constraintBottom_toBottomOf="@+id/btnEval"

        app:layout_constraintHorizontal_bias="0.0"

        app:layout_constraintLeft_toLeftOf="@+id/btnEval"

        app:layout_constraintRight_toRightOf="@+id/btnEval"

    </FrameLayout>

    <TextView

        android:id="@+id/textView2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginBottom="8dp"

        android:layout_marginEnd="8dp"

        android:layout_marginLeft="8dp"
    
```

```

        android:layout_marginRight="8dp"

        android:layout_marginStart="8dp"

        android:layout_marginTop="8dp"

        android:text="@string/eval"

        android:textColor="@color/colorWhite"

        android:textSize="@dimen/dmnTitleBtn"

        android:textStyle="bold"

        app:layout_constraintBottom_toBottomOf="@+id/frameLayout7"

        app:layout_constraintHorizontal_bias="0.6"

        app:layout_constraintLeft_toLeftOf="@+id/frameLayout7"

        app:layout_constraintRight_toRightOf="@+id/frameLayout7"

        app:layout_constraintTop_toTopOf="@+id/frameLayout7"

        app:layout_constraintVertical_bias="0.5"
    </ImageButton>

    <ImageButton

        android:id="@+id/btnWrite"

        android:layout_width="0dp"

        android:layout_height="0dp"

        android:layout_marginBottom="8dp"

        android:layout_marginEnd="8dp"

        android:layout_marginLeft="8dp"

        android:layout_marginRight="8dp"

        android:layout_marginStart="8dp"
    
```

```

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        android:scaleType="centerInside"

        app:layout_constraintBottom_toTopOf="@+id/guideline4"

        app:layout_constraintHorizontal_bias="0.0"

        app:layout_constraintLeft_toLeftOf="@+id/guideline5"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/frameLayout2"

        app:layout_constraintVertical_bias="0.0"

        app:srcCompat="@drawable/icon_write"

        <FrameLayout

        android:id="@+id/frameLayout12"

        android:layout_width="0dp"

        android:layout_height="5dp"

        android:layout_marginLeft="8dp"

        android:layout_marginRight="8dp"

        android:layout_marginTop="8dp"

        android:background="@color/claroDivider"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toTopOf="@+id/guideline4"

        android:layout_marginStart="8dp"

        p"

        android:layout_marginEnd="8dp"

        >

        </FrameLayout>

        <view

        android:id="@+id/srl"

        class="android.support.v4.widget.SwipeRefreshLayout"

        android:layout_width="0dp"

        android:layout_height="0dp"

        android:layout_marginBottom="8dp"

        android:layout_marginEnd="8dp"

        android:layout_marginLeft="8dp"

        android:layout_marginRight="8dp"

        android:layout_marginStart="8dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintRight_toRightOf="parent"

        android:layout_marginTop="8dp"

        app:layout_constraintTop_toBottomOf="@+id/frameLayout12">

        <android.support.v7.widget.RecyclerView

        android:id="@+id/rv"

        android:layout_width="match_parent"

        android:layout_height="match_parent"

        </view>

```

```

        <FrameLayout

android:layout_width="0dp"

android:layout_height="50dp"

android:layout_marginBottom="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

android:background="@drawable/bg_btn_foot"

app:layout_constraintBottom_toBottomOf="@+id/btnWrite"

app:layout_constraintLeft_toLeftOf="@+id/btnWrite"

app:layout_constraintRight_toRightOf="@+id/btnWrite"

android:id="@+id/frameLayout13"
">

    </FrameLayout>

    <TextView

android:id="@+id/textView3"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginBottom="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

android:layout_marginTop="8dp"

android:text="@string/strWrite"

android:textColor="@color/colorWhite"

```

```

        android:textSize="@dimen/dmnTitleBtn"

        android:textStyle="bold"

        app:layout_constraintBottom_toBottomOf="@+id/frameLayout13"

        app:layout_constraintHorizontal_bias="0.529"

        app:layout_constraintLeft_toLeftOf="@+id/frameLayout13"

        app:layout_constraintRight_toRightOf="@+id/frameLayout13"

        app:layout_constraintTop_toTopOf="@+id/frameLayout13"    />

    </android.support.constraint.ConstraintLayout>

```

## Coding evaluasi

```

<?xml                  version="1.0"
encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout_width="match_parent"

android:layout_height="match_parent"

tools:context="com.enwif.igro.cnt.EvQr">

<android.support.design.widget.FloatingActionButton

android:id="@+id/fabEnd"

android:layout_width="wrap_content"

android:layout_height="wrap_co

```

```

content"

android:layout_marginEnd="8dp"

android:layout_marginTop="8dp"

android:clickable="true"
    app:fabSize="mini"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="parent"

app:srcCompat="@android:drawable/ic_menu_myplaces" />

<android.support.design.widget
.FloatingActionButton

android:id="@+id/fabNext"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginEnd="32dp"

android:layout_marginTop="8dp"

android:clickable="true"
    app:fabSize="mini"

app:layout_constraintRight_toLeftOf="@+id/fabEnd"

app:layout_constraintTop_toTopOf="parent"

app:srcCompat="@android:drawable/ic_media_next" />

<android.support.design.widget
.FloatingActionButton

android:id="@+id/fabStart"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginEnd="8dp"

android:layout_marginTop="8dp"

android:clickable="true"
    app:fabSize="mini"

app:layout_constraintRight_toLeftOf="@+id/fabNext"

app:layout_constraintTop_toTopOf="parent"

app:srcCompat="@android:drawable/ic_media_play" />

<FrameLayout

android:layout_width="0dp"

android:layout_height="5dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

android:layout_marginTop="8dp"

android:background="@color/cir
Divider"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toBottomOf="@+id/fabEnd"

android:id="@+id/frameLayout8"

android:layout_marginStart="8dp"

android:layout_marginEnd="8dp"
>

</FrameLayout>

<ImageButton
    android:id="@+id/ib"

android:layout_width="0dp"

android:layout_height="150dp"

```

```

        android:layout_marginEnd="8dp"

        android:layout_marginLeft="8dp"
        "

        android:layout_marginRight="8dp"
        "

        android:layout_marginStart="8dp"
        "

        android:layout_marginTop="8dp"

        android:contentDescription="@string/strBlank"

        android:scaleType="fitXY"

        app:layout_constraintHorizontal_bias="0.0"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/frameLayout8" />

        <FrameLayout

        android:layout_width="0dp"

        android:layout_height="5dp"

        android:layout_marginLeft="8dp"
        "

        android:layout_marginRight="8dp"
        "

        android:layout_marginTop="8dp"

        android:background="@color/clrDivider"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/ib"

        android:id="@+id/frameLayout9"
        >

```

```

</FrameLayout>

<ImageView
    android:id="@+id/ivA"

    android:layout_width="0dp"

    android:layout_height="60dp"

    android:layout_marginEnd="8dp"

    android:layout_marginStart="8dp"
    "

    android:layout_marginTop="8dp"

    android:contentDescription="@string/strBlank"

    android:scaleType="fitXY"

    app:layout_constraintLeft_toLeftOf="parent"

    app:layout_constraintRight_toLeftOf="@+id/btnA"

    app:layout_constraintTop_toBottomOf="@+id/frameLayout9" />

    <Button
        android:id="@+id/btnA"

        android:layout_width="wrap_content"

        android:layout_height="0dp"

        android:layout_marginEnd="8dp"

        android:text="@string/strA"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toTopOf="@+id/ivA"

        android:layout_marginTop="8dp"

        app:layout_constraintBottom_toBottomOf="@+id/ivA"

        android:layout_marginBottom="8dp"
        />

    <Button
        android:id="@+id/btnB"

```

```

android:layout_width="wrap_content"

android:layout_height="0dp"

android:layout_marginEnd="8dp"

android:layout_marginTop="8dp"

android:text="@string/strB"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="@+id/ivB"

app:layout_constraintBottom_toBottomOf="@+id/ivB"

android:layout_marginBottom="8dp"

<ImageView
    android:id="@+id/ivB"

    android:layout_width="0dp"

    android:layout_height="60dp"

    android:layout_marginEnd="8dp"

    android:layout_marginStart="8dp"

    android:layout_marginTop="8dp"

    android:contentDescription="@string/strBlank"

    android:scaleType="fitXY"

    app:layout_constraintLeft_toLeftOf="parent"

    app:layout_constraintRight_toLeftOf="@+id/btnB"

    app:layout_constraintTop_toBottomOf="@+id/ivA"

    <Button
        android:id="@+id/btnC"

        android:layout_width="wrap_content"

        android:layout_height="0dp"

```

```

android:layout_marginEnd="8dp"

android:text="@string/strC"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="@+id/ivC"

android:layout_marginTop="8dp"

app:layout_constraintBottom_toBottomOf="@+id/ivC"

android:layout_marginBottom="8dp"

<ImageView
    android:id="@+id/ivC"

    android:layout_width="0dp"

    android:layout_height="60dp"

    android:layout_marginEnd="8dp"

    android:layout_marginStart="8dp"

    android:layout_marginTop="8dp"

    android:contentDescription="@string/strBlank"

    android:scaleType="fitXY"

    app:layout_constraintLeft_toLeftOf="parent"

    app:layout_constraintRight_toLeftOf="@+id/btnC"

    app:layout_constraintTop_toBottomOf="@+id/ivB"

    <Button
        android:id="@+id/btnD"

        android:layout_width="wrap_content"

        android:layout_height="0dp"

        android:layout_marginEnd="8dp"

        android:layout_marginTop="8dp"

        android:text="@string/strD"

```

```

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="@+id/ivD"

app:layout_constraintBottom_toBottomOf="@+id/ivD"

android:layout_marginBottom="8dp"
/>

<ImageView
    android:id="@+id/ivD"

android:layout_width="0dp"

android:layout_height="60dp"

android:layout_marginEnd="8dp"

android:layout_marginStart="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

android:scaleType="fitXY"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toLeftOf="@+id/btnD"

app:layout_constraintTop_toBottomOf="@+id/ivC"
/>

</android.support.constraint.ConstraintLayout>

```

Coding bacalah Iqro

```

<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"

```

```

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:orientation="vertical"

    tools:layout_editor_absoluteY="25dp"

    tools:layout_editor_absoluteX="0dp">

    <FrameLayout

    android:id="@+id/frameLayout14"

    android:layout_width="5dp"

    android:layout_height="0dp"

    android:layout_marginBottom="0dp"

    android:layout_marginStart="0dp"

    android:layout_marginTop="0dp"

    android:background="@color/claro"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintLeft_toLeftOf="parent"

    app:layout_constraintTop_toTopOf="parent">

    </FrameLayout>

    <FrameLayout

    android:id="@+id/frameLayout16"

    android:layout_width="5dp"

    android:layout_height="0dp"

    android:background="@color/claro"

    app:layout_constraintBottom_toBottomOf="parent"

```

```

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="parent">

    </FrameLayout>

    <LinearLayout

android:layout_width="0dp"

android:layout_height="0dp"

android:orientation="vertical"

app:layout_constraintTop_toTopOf="parent"

android:layout_marginTop="8dp"

app:layout_constraintBottom_toBottomOf="parent"

android:layout_marginBottom="8dp"

app:layout_constraintRight_toLeftOf="@+id/frameLayout16"

android:layout_marginEnd="8dp"

app:layout_constraintLeft_toRightOf="@+id/frameLayout14"

android:layout_marginStart="8dp">

    <ImageView

android:id="@+id/iv1"

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_weight="1"

android:contentDescription="@string/strBlank"

android:scaleType="fitXY"    />

    <ImageView

android:id="@+id/iv1"

```

```

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_weight="1"

android:contentDescription="@string/strBlank"

android:scaleType="fitXY"    />

    <ImageView

android:id="@+id/iv3"

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_weight="1"

android:contentDescription="@string/strBlank"

android:scaleType="fitXY"    />

    <ImageView

android:id="@+id/iv4"

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_weight="1"

android:contentDescription="@string/strBlank"

android:scaleType="fitXY"    />

    <ImageView

android:id="@+id/iv5"

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:layout_weight="1"

```



```
android:contentDescription="@string/strBlank"
```

```
android:scaleType="fitXY" />
```

```
<ImageView
```

```
android:id="@+id/iv6"
```

```
android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
```

```
android:layout_weight="1"
```

```
android:contentDescription="@string/strBlank"
```

```
android:scaleType="fitXY" />
```

```
<ImageView
```

```
android:id="@+id/iv7"
```

```
android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
```

```
android:layout_weight="1"
```

```
android:contentDescription="@string/strBlank"
```

```
android:scaleType="fitXY" />
```

```
<ImageView
```

```
android:id="@+id/iv8"
```

```
android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
```

```
android:layout_weight="1"
```

```
android:contentDescription="@string/strBlank"
```

```
android:scaleType="fitXY" />
```

```
</LinearLayout>
```

```
</android.support.constraint.ConstraintLayout>
```

Coding hasil evaluasi

```
<?xml version="1.0" encoding="utf-8" ?>
```

```
<android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
xmlns:app="http://schemas.android.com/apk/res-auto"
```

```
xmlns:tools="http://schemas.android.com/tools"
```

```
android:layout_width="match_parent"
```

```
android:layout_height="match_parent"
```

```
tools:context="com.enwif.igro.cnt.Result">
```

```
<TextView
```

```
android:id="@+id/tvTitle"
```

```
android:layout_width="0dp"
```

```
android:layout_height="wrap_content"
```

```
android:layout_marginEnd="8dp"
```

```
android:layout_marginLeft="8dp"
```

```
android:layout_marginRight="8dp"
```

```
android:layout_marginStart="8dp"
```

```
android:layout_marginTop="8dp"
```

```
android:text="@string/strResultTile"
```

```
android:textAlignment="center"
```

```
app:layout_constraintLeft_toLeftOf="parent"
```

```

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="parent" />

    <FrameLayout

android:layout_width="0dp"

android:layout_height="5dp"

android:layout_marginLeft="8dp"
"

android:layout_marginRight="8dp"
"

android:layout_marginTop="8dp"

android:background="@color/claro"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toBottomOf="@+id/tvTitle"

android:id="@+id/frameLayout10"
"

android:layout_marginStart="8dp"
"

android:layout_marginEnd="8dp"
"

    </FrameLayout>

    <TextView

android:id="@+id/textView7"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginStart="8dp"

android:layout_marginTop="8dp"

android:text="@string/strTglWaktu"

```

```

ktu"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintTop_toBottomOf="@+id/frameLayout10" />

    <TextView

android:id="@+id/textView8"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginStart="8dp"

android:text="@string/strColon"
"

app:layout_constraintBaseline_toBaselineOf="@+id/textView7"

app:layout_constraintLeft_toRightOf="@+id/textView7" />

    <TextView

android:id="@+id/tvTglWaktu"

android:layout_width="0dp"

android:layout_height="wrap_content"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"
"

android:layout_marginRight="8dp"

android:layout_marginStart="8dp"

android:text="@string/strBlank"
"

app:layout_constraintBaseline_toBaselineOf="@+id/textView8"

app:layout_constraintLeft_toRightOf="@+id/textView8"

```

```
app:layout_constraintRight_toRightOf="parent" />
```

```
<TextView
```

```
android:id="@+id/textView11"
```

```
android:layout_width="0dp"
```

```
android:layout_height="wrap_content"
```

```
android:layout_marginStart="8dp"
```

```
android:layout_marginTop="8dp"
```

```
android:text="@string/strSumEven"
```

```
app:layout_constraintLeft_toLeftOf="parent"
```

```
app:layout_constraintTop_toBottomOf="@+id/tvTglWaktu"
```

```
android:layout_marginEnd="0dp"
```

```
app:layout_constraintRight_toRightOf="@+id/textView7" />
```

```
<TextView
```

```
android:id="@+id/textView12"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:layout_marginStart="8dp"
```

```
android:text="@string/strColon"
```

```
app:layout_constraintBaseline_toBaselineOf="@+id/textView11"
```

```
app:layout_constraintLeft_toRightOf="@+id/textView11" />
```

```
<TextView
```

```
android:id="@+id/tvSumEven"
```

```
android:layout_width="0dp"
```

```
android:layout_height="wrap_content"
```

```
android:layout_marginEnd="8dp"
```

```
android:layout_marginLeft="8dp"
```

```
android:layout_marginRight="8dp"
```

```
android:layout_marginStart="8dp"
```

```
android:text="@string/strBlank"
```

```
app:layout_constraintBaseline_toBaselineOf="@+id/textView12"
```

```
app:layout_constraintLeft_toRightOf="@+id/textView12"
```

```
app:layout_constraintRight_toRightOf="parent" />
```

```
<TextView
```

```
android:id="@+id/textView14"
```

```
android:layout_width="0dp"
```

```
android:layout_height="wrap_content"
```

```
android:layout_marginStart="8dp"
```

```
android:layout_marginTop="8dp"
```

```
android:text="@string/strSumCorrect"
```

```
app:layout_constraintLeft_toLeftOf="parent"
```

```
app:layout_constraintTop_toBottomOf="@+id/tvSumEven"
```

```
android:layout_marginEnd="0dp"
```

```
app:layout_constraintRight_toRightOf="@+id/textView7" />
```

```
<TextView
```

```
android:id="@+id/textView15"
```

```
android:layout_width="wrap_content"
```

```

tent"

android:layout_height="wrap_content"

android:layout_marginEnd="8dp"

android:layout_marginStart="8dp"

android:text="@string/strColon"

app:layout_constraintBaseline_toBaselineOf="@+id/textView14"

app:layout_constraintLeft_toRightOf="@+id/textView14" />

<TextView

android:id="@+id/tvSumCorrect"

android:layout_width="0dp"

android:layout_height="wrap_content"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

android:layout_marginStart="8dp"

android:text="@string/strBlank"

app:layout_constraintBaseline_toBaselineOf="@+id/textView15"

app:layout_constraintLeft_toRightOf="@+id/textView15"

app:layout_constraintRight_toRightOf="parent" />

<TextView

android:id="@+id/textView17"

android:layout_width="0dp"

android:layout_height="wrap_content"

```

```

android:layout_marginStart="8dp"

android:layout_marginTop="7dp"

android:text="@string/strSymWrong"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintTop_toBottomOf="@+id/tvSumCorrect"

android:layout_marginEnd="0dp"

app:layout_constraintRight_toRightOf="@+id/textView7" />

<TextView

android:id="@+id/textView18"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginStart="8dp"

android:text="@string/strColon"

app:layout_constraintBaseline_toBaselineOf="@+id/textView17"

app:layout_constraintLeft_toRightOf="@+id/textView17" />

<TextView

android:id="@+id/tvSumWrong"

android:layout_width="0dp"

android:layout_height="wrap_content"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

```

```

    android:layout_marginStart="8dp"

    android:text="@string/strBlank"

    app:layout_constraintBaseline_toBaselineOf="@+id/textView18"

    app:layout_constraintLeft_toRightOf="@+id/textView18"

    app:layout_constraintRight_toRightOf="parent" />

    <FrameLayout

    android:layout_width="0dp"

    android:layout_height="5dp"

    android:layout_marginLeft="8dp"

    android:layout_marginRight="8dp"

    android:layout_marginTop="8dp"

    android:background="@color/claro"

    app:layout_constraintLeft_toLeftOf="parent"

    app:layout_constraintRight_toRightOf="parent"

    app:layout_constraintTop_toBottomOf="@+id/tvSumWrong"

    android:id="@+id/frameLayout11"
    >

    </FrameLayout>

    <Button
        android:id="@+id/btn"

    android:layout_width="0dp"

    android:layout_height="wrap_content"

    android:layout_marginLeft="8dp"

    android:layout_marginRight="8dp"

```

```

    android:layout_marginTop="8dp"

    android:text="@string/strBack"

    app:layout_constraintLeft_toLeftOf="parent"

    app:layout_constraintRight_toRightOf="parent"

    app:layout_constraintTop_toBottomOf="@+id/frameLayout11" />
</android.support.constraint.ConstraintLayout>

```

## Coding Splash screen

```

<?xml version="1.0"
encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

    android:orientation="vertical"

    android:layout_width="match_parent"

    android:layout_height="match_parent">

    <ImageView

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:src="@drawable/splash"

    android:scaleType="centerInside"
    />

    <ProgressBar
        android:id="@+id/pb"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:layout_centerHorizontal="true"
    />

```

```
</LinearLayout>
```

Coding Tanda baca

```
<?xml version="1.0"
encoding="utf-8" ?>
<android.support.constraint.Co
nstraintLayout

xmlns:android="http://schemas.
android.com/apk/res/android"

xmlns:app="http://schemas.andr
oid.com/apk/res-auto"

xmlns:tools="http://schemas.an
droid.com/tools"

android:layout_width="match_pa
rent"

android:layout_height="match_p
arent">

    <ImageView
        android:id="@+id/iv1"

android:layout_width="0dp"

android:layout_height="80dp"

android:layout_marginLeft="8dp
"

android:layout_marginRight="8d
p"

android:layout_marginTop="8dp"

android:contentDescription="@s
tring/strBlank"

android:scaleType="fitEnd"

app:layout_constraintHorizontal
l_bias="0.0"

app:layout_constraintLeft_toLe
ftOf="parent"

app:layout_constraintRight_toR
ightOf="parent"

app:layout_constraintTop_toTop
Of="parent" />
```

```
<ImageView
    android:id="@+id/iv2"

android:layout_width="0dp"

android:layout_height="80dp"

android:layout_marginLeft="8dp
"

android:layout_marginRight="8d
p"

android:layout_marginTop="0dp"

android:contentDescription="@s
tring/strBlank"

android:scaleType="centerInsid
e"

app:layout_constraintHorizontal
l_bias="0.0"

app:layout_constraintLeft_toLe
ftOf="parent"

app:layout_constraintRight_toR
ightOf="parent"

app:layout_constraintTop_toBot
tomOf="@+id/iv1" />

<ImageView
    android:id="@+id/iv3"

android:layout_width="0dp"

android:layout_height="80dp"

android:layout_marginLeft="8dp
"

android:layout_marginRight="8d
p"

android:layout_marginTop="-
2dp"

android:contentDescription="@s
tring/strBlank"

android:scaleType="centerInsid
e"

app:layout_constraintHorizontal
l_bias="0.0"

app:layout_constraintLeft_toLe
```

```

ftOf="parent"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toBottomOf="@+id/iv2" />

</android.support.constraint.ConstraintLayout>

```

Coding menulis pada Iqro'

```

<?xml version="1.0"
encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout_width="match_parent"

android:layout_height="match_parent"

android:background="@color/clarBg"

tools:context="com.enwif.iqro.cnt.WriteQr">

    <FrameLayout

android:id="@+id/frameLayout15"

android:layout_width="0dp"

android:layout_height="5dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

android:layout_marginStart="8dp"

```

```

android:layout_marginTop="8dp"

android:background="@color/clarDivider"

app:layout_constraintHorizontal_bias="0.0"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="parent">

        </FrameLayout>

        <ImageView

            android:id="@+id/iv1"

android:layout_width="0dp"

android:layout_height="100dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"

android:layout_marginRight="8dp"

android:layout_marginStart="8dp"

android:layout_marginTop="8dp"

android:contentDescription="@string/strBlank"

app:layout_constraintHorizontal_bias="1.0"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toBottomOf="@+id/frameLayout15" />

        <Button

            android:id="@+id/btnChange"

```

```

        android:layout_width="0dp"

        android:layout_height="wrap_content"

        android:layout_marginLeft="8dp"
        "

        android:layout_marginRight="8dp"
        "

        android:layout_marginTop="8dp"

        android:text="@string/strGanti"
        "

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/iv1"
        />

        <FrameLayout

        android:id="@+id/frameLayout17"
        "

        android:layout_width="0dp"

        android:layout_height="5dp"

        android:layout_marginLeft="8dp"
        "

        android:layout_marginRight="8dp"
        "

        android:background="@color/clrDivider"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintRight_toRightOf="parent"

        android:layout_marginTop="8dp"

        app:layout_constraintTop_toBottomOf="@+id/btnChange"

        app:layout_constraintHorizontal_bias="0.0">

```

```
</FrameLayout>
```

```

        <TextView

        android:id="@+id/textView9"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginStart="8dp"
        "

        android:layout_marginTop="8dp"

        android:text="@string/strWriteInstruction"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/frameLayout17"
        />

        <Button

        android:id="@+id/btnReset"

        android:layout_width="0dp"

        android:layout_height="wrap_content"

        android:layout_marginBottom="8dp"
        "

        android:layout_marginLeft="8dp"
        "

        android:layout_marginRight="8dp"
        "

        android:text="@string/strReset"
        "

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintRight_toRightOf="parent"
        />

        <view

        android:id="@+id/cv"

        class="com.enwif.igro.cnt.CnvView"

```



```
android:layout_width="0dp"

android:layout_height="0dp"

android:layout_marginEnd="8dp"

android:layout_marginLeft="8dp"
"

android:layout_marginRight="8d
p"

android:layout_marginStart="8d
p"

android:layout_marginTop="8dp"

android:background="@color/col
orWhite"

app:layout_constraintHorizontal
_bias="0.0"

app:layout_constraintLeft_toLe
ftOf="parent"

app:layout_constraintRight_toR
ightOf="parent"

app:layout_constraintTop_toBot
tomOf="@+id/textView9"

android:layout_marginBottom="8
dp"

app:layout_constraintBottom_to
TopOf="@+id/btnReset" />

</android.support.constraint.C
onstraintLayout>
```