LAMPIRAN

```
#include <EEPROM.h>
SoftwareSerial sim900(7, 8);

#define buttonPin 2
#define ledPin 11
#define parkir 3
#define standby 4
#define klakson 5



bool myNumber;
int state;
String sms;
int buttonState = 0;
uint8_t SmsCount = 0;
const int SmsMax = 1;
byte State1 = 0;
byte State2 = 0;


void send_sms(String text)
{
  sim900.println("AT + CMGS = \"+6281381437889\"");
  delay(500);
  sim900.println(text);
  delay(500);
  sim900.println((char)26);
  delay(500);
  sim900.println();
}

int test_gsm()
{
  int fail=0;

  sim900.println("ATE0\r");
  if(sim900.find("OK"))
  {
    Serial.println("No Echo OK");
  }
  else{
  }
  delay(500);

  sim900.print("AT+CMGF=1\r");
  if(sim900.find("OK"))
```

```
  {
    Serial.println("Text Mode OK");
  }
  else{
      fail++;
  }
  delay(500);


  sim900.print("AT+CNMI=2,2,0,0\r");
  if(sim900.find("OK"))
  {
    Serial.println("Setting GSM OK");
  }
  else{
      fail++;
  }
  delay(500);

  sim900.print("AT+CMGD=1,4\r");
  if(sim900.find("OK"))
  {
    Serial.println("Delete Memory OK");
  }
  else{
      fail++;
  }
  delay(2000);

  return fail;
}


void setup() {

  sim900.begin(9600);
  Serial.begin(9600);

  pinMode(buttonPin,OUTPUT);
  pinMode(parkir,OUTPUT);
  pinMode(standby,OUTPUT);
  pinMode(klakson,OUTPUT);
  pinMode(ledPin,OUTPUT);



  digitalWrite(parkir,HIGH);
  digitalWrite(standby,HIGH);
```

```
  digitalWrite(klakson,HIGH);
  digitalWrite(ledPin,HIGH);
  digitalWrite(buttonPin,HIGH);

  digitalWrite(9, LOW);

  int i,temp;
  {
    Serial.println("Test GSM");
    temp=test_gsm();
    if(temp<4) break;

    if(temp==1)
    {
      digitalWrite(9,HIGH);
      delay(1500);
      digitalWrite(9,LOW);
    }
  }


}


void loop() {
if(SmsCount<SmsMax){
  buttonState = digitalRead(buttonPin);
    delay(10000);
    sms="";
    send_sms("KONTAK ON");

    SmsCount=SmsCount+1;
  }
  }
while(sim900.available())
  {
    char temp1 = (char)sim900.read();
    sms+=temp1;

    if(temp1=='\n')
    {
      state++;

      if(state==1) sms="";
    }

        if(((sms.indexOf("+CMT: \"+6281381437889\""))>-
    {
```

```
    sms="";
    state=0;
    myNumber=true;


  }

  Serial.print(temp1);
}

if(myNumber && state>=2)
{
  myNumber=false;

  if(sms.indexOf("MotorOn")>-1)
  {
    digitalWrite(parkir,LOW);

    sms="";
    send_sms("Motor On BOSS");
  }
  else if(sms.indexOf("MotorOff")>-1)
  {
    digitalWrite(parkir,HIGH);

    sms="";
    send_sms("MotorOff BOSS");


  }
  else if(sms.indexOf("StandbyOn")>-1)
  {
    digitalWrite(standby,LOW);
    EEPROM.write(1,LOW);
    sms="";
    send_sms("Motor Standby BOSS");

  }
  else if(sms.indexOf("StandbyOff")>-1)
  {
    digitalWrite(standby,HIGH);
    EEPROM.write(1,HIGH);
    sms="";
    send_sms("Standby Off BOSS");

  }
  else if(sms.indexOf("Maling")>-1)
  {
```

```
      digitalWrite(parkir,HIGH);
      EEPROM.write(1,HIGH);
      digitalWrite(standby,HIGH);
      EEPROM.write(1,HIGH);
      digitalWrite(klakson,LOW);
      EEPROM.write(2,LOW);
      sms="";
      send_sms("Motor Mati BOSS");
    }
    else if(sms.indexOf("KlaksonOff")>-1)
    {
      digitalWrite(klakson,HIGH);
      EEPROM.write(2,HIGH);
      sms="";
      send_sms("Klakson Mati BOSS");
    }
    else
    {
      sms="";
      send_sms("FORMAT SMS SALAH BOSS");
  }
}
}

void ReadEEPROM (){
  State1 = EEPROM.read(1);
  State2 = EEPROM.read(2);
  digitalWrite(standby,State1);
  Serial.print(F("Posisi Terakhir Standby = "));
  if(State1==1){
    Serial.println("HIGH");
      sms="";
      send_sms("Status Standby Aktif BOSS");
    }
  else {
    Serial.println("LOW");
    }

    digitalWrite(klakson,State2);
  Serial.print(F("Posisi Terakhir Klakson = "));
  if(State2==1){
    Serial.println("HIGH");
    }
  else {
    Serial.println("LOW");
    }
}
```