

LAMPIRAN

```

function varargout = untitled(varargin)
% UNTITLED M-file for untitled.fig
%   UNTITLED, by itself, creates a new UNTITLED or raises the existing
%   singleton*.
%
%   H = UNTITLED returns the handle to a new UNTITLED or the handle to
%   the existing singleton*.
%
%   UNTITLED('CALLBACK',hObject,eventData,handles,...) calls the local
%   function named CALLBACK in UNTITLED.M with the given input arguments.
%
%   UNTITLED('Property','Value',...) creates a new UNTITLED or raises the
%   existing singleton*. Starting from the left, property value pairs are
%   applied to the GUI before untitled_OpeningFcn gets called. An
%   unrecognized property name or invalid value makes property application
%   stop. All inputs are passed to untitled_OpeningFcn via varargin.
%
%   *See GUI Options on GUIDE's Tools menu. Choose "GUI allows only one
%   instance to run (singleton)".
%
% See also: GUIDE, GUIDATA, GUIHANDLES

% Edit the above text to modify the response to help untitled

% Last Modified by GUIDE v2.5 08-Feb-2017 06:42:27

% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name',    mfilename, ...
                  'gui_Singleton', gui_Singleton, ...
                  'gui_OpeningFcn', @untitled_OpeningFcn, ...
                  'gui_OutputFcn', @untitled_OutputFcn, ...
                  'gui_LayoutFcn', [] , ...
                  'gui_Callback', []);
if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end

if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end
% End initialization code - DO NOT EDIT

% --- Executes just before untitled is made visible.
function untitled_OpeningFcn(hObject, eventdata, handles, varargin)
% This function has no output args, see OutputFcn.
% hObject    handle to figure

```

```

% eventdata reserved - to be defined in a future version of MATLAB
% handles structure with handles and user data (see GUIDATA)
% varargin command line arguments to untitled (see VARARGIN)

% Choose default command line output for untitled
handles.output = hObject;

% Update handles structure
guidata(hObject, handles);

% UIWAIT makes untitled wait for user response (see UIRESUME)
% uiwait(handles.figure1);

% --- Outputs from this function are returned to the command line.
function varargout = untitled_OutputFcn(hObject, eventdata, handles)
% varargout cell array for returning output args (see VARARGOUT);
% hObject handle to figure
% eventdata reserved - to be defined in a future version of MATLAB
% handles structure with handles and user data (see GUIDATA)

% Get default command line output from handles structure
varargout{1} = handles.output;

% --- Executes on button press in pushbutton3.
function pushbutton3_Callback(hObject, eventdata, handles)
% hObject handle to pushbutton3 (see GCBO)
% eventdata reserved - to be defined in a future version of MATLAB
% handles structure with handles and user data (see GUIDATA)

function edit1_Callback(hObject, eventdata, handles)
% hObject handle to edit1 (see GCBO)
% eventdata reserved - to be defined in a future version of MATLAB
% handles structure with handles and user data (see GUIDATA)

% Hints: get(hObject,'String') returns contents of edit1 as text
% str2double(get(hObject,'String')) returns contents of edit1 as a double

% --- Executes during object creation, after setting all properties.
function edit1_CreateFcn(hObject, eventdata, handles)
% hObject handle to edit1 (see GCBO)
% eventdata reserved - to be defined in a future version of MATLAB
% handles empty - handles not created until after all CreateFcns called

% Hint: edit controls usually have a white background on Windows.
% See ISPC and COMPUTER.

```

```

if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

```

% --- Executes on button press in pushbutton4.

```
function pushbutton4_Callback(hObject, eventdata, handles)
```

```
% hObject handle to pushbutton4 (see GCBO)
```

```
% eventdata reserved - to be defined in a future version of MATLAB
```

```
% handles structure with handles and user data (see GUIDATA)
```

```
proyek=guidata(gcbo);
```

```
i=get(proyek.axes6,'UserData');
```

```
s= imresize(i,0.6,'bilinear');
```

```
J=rgb2gray(i);
```

```
t=graythresh(J);
```

```
a=im2bw(J,t);
```

```
l = +a
```

```
m = [0 0 -1 0 0; 0 -1 -2 -1 0; -1 -2 16 -2 -1; 0 -1 -2 -1 0; 0 0 -1 0 0]
```

```
e=conv2(l,m);
```

```
B = imresize (J,2); % Citra binaryzation"
```

```
bw1=edge(e,'canny');
```

```
%c=bwlabel(B);bw1
```

```
%I1=imcrop(J);
```

```
[w h]=size(J);% coding lbp
```

```
for i=2:w-1
```

```
    for j=2:h-1
```

```
        val=J(i,j); scale=2.^[0 1 2;7 -inf 3;6 5 4];
```

```
        mat=[J(i-1,j-1) J(i-1,j) J(i-1,j+1);J(i,j-1) J(i,j) J(i,j+1);J(i+1,j-1) J(i+1,j) J(i+1,j+1)];
```

```
        mat=mat>=val; fin=mat.*scale; J(i,j)=uint8(sum(sum(fin)));
```

```
    end
```

```
end
```

```
%A = medfilt2(B,[5,5]); % Median Filtering"
```

```
%resize gambar
```

```
%gbr='plat.jpg';
```

```
%I = imread(gbr);
```

```
%J = imresize(i,0.6,'bilinear');
```

```
%G = rgb2gray(J)
```

```
%coba imclose
```

```
se= strel('disk',10);
```

```
closebw = imclose(bw1,se);
```

```
%menghilangkan noise (10 pixel)
pix=bwarea(B)/(10^4)*10000;
hasil=pix;
hasil2=pix;

if pix==27000000;
    hasil='Sayur Kualitas Bagus';
elseif pix==176947200;
    hasil='Kubis Kualitas Bagus';
    hasil2='Bagus kelas 2';
elseif pix==24792964;
    hasil='Kubis Kualitas Bagus';
    hasil2='Bagus kelas 2';
elseif pix==3386820;
    hasil='Sayur Sawi Kualitas Buruk';
    hasil2='Sayur Sawi Kualitas Buruk';
elseif pix==2782500;
    hasil='Sayur Sawi Kualitas Buruk';
    hasil2='Sayur Sawi Kualitas Buruk';
elseif pix==3173380;
    hasil='Sawi Kualitas Buruk';
    hasil2='Sawi Kualitas Buruk';
elseif pix==3141460;
    hasil='Sawi Kualitas Buruk';
    hasil2='Sawi Kualitas Buruk';
elseif pix==3443796;
    hasil='Sawi Kualitas Buruk';
    hasil2='Sawi Kualitas Buruk';
elseif pix==3197836;
    hasil='Sawi Kualitas Buruk';
    hasil2='Sawi Kualitas Buruk';
elseif pix==3680196;
    hasil='Sawi Kualitas Buruk';
    hasil2='Sawi Kualitas Buruk';
elseif pix==3904732;
    hasil='Sawi Kualitas Buruk';
    hasil2='Sawi Kualitas Buruk';
elseif pix==3672860;
    hasil='Sawi Kualitas Buruk';
    hasil2='Sawi Kualitas Buruk';
elseif pix==3722812;
    hasil='Sawi Kualitas Bagus';
    hasil2='kelas 2';
elseif pix==3498940;
    hasil='Sayur Sawi Kualitas Bagus';
    hasil2='Kualitas Super';
elseif pix==4120860;
    hasil='Sayur Sawi Kualitas Bagus';
    hasil2='Kualitas Super';
```

```
elseif pix==4206748;
    hasil='Sawi Kualitas Bagus';
    hasil2='Bagus kelas 2';
elseif pix==3596348;
    hasil='Sawi Kualitas Bagus';
    hasil2='Kualitas Super';
elseif pix==4087684;
    hasil='Sawi Kualitas Bagus';
    hasil2='Bagus kelas 2';
elseif pix==3716060;
    hasil='Sawi Kualitas Bagus';
    hasil2='Kualitas Super';
    elseif pix==31961088;
    hasil='Sawi Kualitas Bagus';
    hasil2='Bagus kelas 2';
elseif pix==3417540;
    hasil='Sawi Kualitas Bagus';
    hasil2='Bagus kelas 2';
elseif pix==4131036;
    hasil='Sawi Kualitas Bagus';
    hasil2='Kualitas Super';
    elseif pix==24087768;
    hasil='Sawi Kualitas Bagus';
    hasil2='Kualitas 2';
    elseif pix==26761020;
    hasil='Sawi Kualitas Bagus';
    hasil2='Kualitas 2';
    elseif pix==24792964;
    hasil='Sawi Kualitas Bagus';
    hasil2='Kualitas 2'
elseif pix==26881252;
    hasil='Sawi Kualitas Bagus';
    hasil2='Kualitas 2'
    elseif pix==24632100;
    hasil='Sawi Kualitas Bagus';
    hasil2='Kualitas 2'

    elseif pix==21849732;
    hasil='Sawi Kualitas Bagus';
    hasil2='Kualitas 2'

elseif pix==4168892;
    hasil='Sawi Kualitas Bagus';
    hasil2='Kualitas Super';
elseif pix==176947200;
    hasil='Kubis Kualitas Bagus';
    hasil2='Kualitas Super';
elseif pix==3564220;
    hasil='Kubis Kualitas Bagus';
    hasil2='Bagus kelas 2';
```

```
elseif pix==3214340;
    hasil='Kubis Kualitas Baik';
    hasil2='kelas 2';
elseif pix==3993516;
    hasil='Kubis Kualitas Baik';
    hasil2='Bagus kelas 2';
elseif pix==3519460;
    hasil='Kubis Kualitas Baik';
    hasil2='Kualitas Super';
elseif pix==3345300;
    hasil='Kubis Kualitas Baik';
    hasil2='Bagus kelas 2';
elseif pix==3141300;
    hasil='Kubis Kualitas Baik';
    hasil2='Kualitas Super';
elseif pix==4244100;
    hasil='Kubis Kualitas Baik';
    hasil2='Bagus kelas 2';
elseif pix==3575572;
    hasil='Kubis Kualitas Baik';
    hasil2='Bagus kelas 2';
elseif pix==3680820;
    hasil='Kubis Kualitas Baik';
    hasil2='Kualitas Super';

    elseif pix==4915200;
    hasil='Kubis Kualitas Jelek';
    hasil2='Kualitas jelek';
    elseif pix==5539840;
    hasil='Kubis Kualitas Jelek';
    hasil2='Kualitas jelek';
    elseif pix==5847040;
    hasil='Kubis Kualitas Jelek';
    hasil2='Kualitas jelek'
elseif pix==3564220;
    hasil='Kubis Kualitas Bagus';
    hasil2='Bagus kelas 2';
elseif pix==3214340;
    hasil='Kubis Kualitas Baik';
    hasil2='Kualitas Super';
elseif pix==3993516;
    hasil='Kubis Kualitas Baik';
    hasil2='Bagus kelas 2';
elseif pix==3519460;
    hasil='Kubis Kualitas Baik';
    hasil2='Kualitas Super';
elseif pix==3345300;
    hasil='Kubis Kualitas Baik';
    hasil2='Bagus kelas 2';
```

```

elseif pix==3141300;
    hasil='Kubis Kualitas Baik';
    hasil2='Kualitas Super';
elseif pix==4244100;
    hasil='Kubis Kualitas Baik';
    hasil2='Bagus kelas 2';
elseif pix==3575572;
    hasil='Kubis Kualitas Baik';
    hasil2='Bagus kelas 2';
elseif pix==3680820;
    hasil='Kubis Kualitas Baik';
    hasil2='Kualitas Super';
end

```

```

set(proyek.axes6,'Userdata');
set(proyek.figure1,'CurrentAxes',proyek.axes2);
set(imshow(J));
set(proyek.edit2,'string',hasil);
set(proyek.edit4,'string',hasil2);
set(proyek.edit5,'string',pix);

```

```

function edit2_Callback(hObject, eventdata, handles)
% hObject   handle to edit2 (see GCBO)
% eventdata reserved - to be defined in a future version of MATLAB
% handles   structure with handles and user data (see GUIDATA)

% Hints: get(hObject,'String') returns contents of edit2 as text
%        str2double(get(hObject,'String')) returns contents of edit2 as a double

% --- Executes during object creation, after setting all properties.
function edit2_CreateFcn(hObject, eventdata, handles)
% hObject   handle to edit2 (see GCBO)
% eventdata reserved - to be defined in a future version of MATLAB
% handles   empty - handles not created until after all CreateFcns called

% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

```



```
% -----  
function Untitled_1_Callback(hObject, eventdata, handles)  
% hObject handle to Untitled_1 (see GCBO)  
% eventdata reserved - to be defined in a future version of MATLAB  
% handles structure with handles and user data (see GUIDATA)
```

```
% -----  
function simpan_Callback(hObject, eventdata, handles)  
% hObject handle to simpan (see GCBO)  
% eventdata reserved - to be defined in a future version of MATLAB  
% handles structure with handles and user data (see GUIDATA)  
proyek=guidata(gcbo);  
[namafile,direktori]=uiputfile({'*.jpg';'*.*'},'Simpan Gambar');  
n=get(proyek.axes2,'Userdata');  
imwrite(n, strcat(direktori,namafile));
```

```
% -----  
function refresh_Callback(hObject, eventdata, handles)  
% hObject handle to refresh (see GCBO)  
% eventdata reserved - to be defined in a future version of MATLAB  
% handles structure with handles and user data (see GUIDATA)  
cla(handles.axes1);  
cla(handles.axes6);  
cla(handles.axes2);  
cla(handles.axes5);
```