

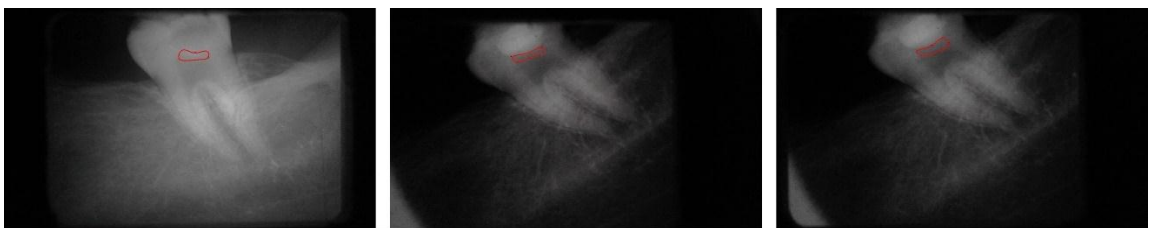
**LAMPIRAN 1 : DATA HASIL ESTIMASI PERHITUNGAN KETEBALAN**

Name	Code	mm2	Name	Code	mm2
P1	K2	5,4025	P10	K2	2,8275
	K1	4,915		K1	2,2675
	In	4,6625		In	2,5675
P2	K2	4,3325	P11	K2	3,2075
	K1	3,9975		K1	3,1825
	In	3,4425		In	3,1475
P3	K2	3,145	P12	K2	5,6375
	K1	3,1175		K1	4,88
	In	2,4275		In	5,0375
P4	K2	5,2	P13	K2	6,4375
	K1	4,86		K1	5,7475
	In	3,5775		In	3,1625
P5	K2	2,725	P14	K2	2,5075
	K1	2,2025		K1	2
	In	1,9275		In	0,89
P6	K2	4,07	P15	K2	2,795
	K1	2,2825		K1	2,0275
	In	2,535		In	2,35
P7	K2	2,8225	P16	K2	1,8925
	K1	1,77		K1	1,47
	In	2,53		In	2,9025
P8	K2	2,245	P17	K2	6,5225
	K1	1,705		K1	5,435
	In	1,06		In	7,185
P9	K2	2,865	P18	K2	1,895
	K1	2,7075		K1	1,995
	In	2,5675		In	2,6125

Name	Code	mm2	Name	Code	mm2
P19	K2	5,42	P29	K2	2,555
	K1	3,545		K1	1,905
	In	6,095		In	2,3275
P20	K2	2,3275	P30	K2	4,815
	K1	2,125		K1	3,31
	In	3,0575		In	2,63
P21	K2	4,21	P31	K2	11,4925
	K1	4,37		K1	11,7975
	In	2,5425		In	11,05
P22	K2	6,0175	P32	K2	5,37
	K1	5,4375		K1	4,6875
	In	4,74		In	2,9175
P23	K2	4,12	P33	K2	5,0025
	K1	3,8025		K1	4,3075
	In	6,99		In	2,3675
P24	K2	3,2925	P34	K2	4,115
	K1	2,7175		K1	3,255
	In	3,27		In	3,7175
P25	K2	5,2375	P35	K2	4,55
	K1	3,0875		K1	2,5725
	In	4,9175		In	4,1225
P26	K2	6,2275	P36	K2	9,8275
	K1	4,0625		K1	10,19
	In	3,23		In	10,2325
P27	K2	1,935	P37	K2	2,9175
	K1	1,5875		K1	2,3625
	In	3,07		In	2,7575
P28	K2	4,86	P38	K2	3,7275
	K1	3,2025		K1	2,9225
	In	4,09		In	4,1875

**LAMPIRAN 2 : DATA HASIL GAMBAR ESTIMASI KETEBALAN**

a. Gambar yang memiliki penambahan nilai dentin tersier.

**Pasien 19****Pasien 26****Pasien 29****Pasien 30**

b. Gambar yang tidak ada penambahan nilai dentin tersier

**Pasien 18**



**Pasien 21**



**Pasien 36**



## LAMPIRAN 3 : SKRIP PROGRAM

### a. showImg.m

```

function img = showImg(spic1,spic2,spic3)
hFig = figure('Toolbar','none',...
    'Menubar','none');
% spic1 = imread(path1);
% spic2 = imread(path2);
% spic3 = imread(path3);
%=====get size width and height=====
[sh1,sw1]=size(spic1(:,:,1));
[sh2,sw2]=size(spic2(:,:,1));
[sh3,sw3]=size(spic3(:,:,1));

% pic1 = imresize(spic1, [sh1 sw1]);
% pic2 = imresize(spic2, [sh1 sw2]);
% pic3 = imresize(spic3, [sh1 sw3]);
%=====convert image=====
if(sh1 > sw1)
    pic1 = imresize(spic1, [600 360]);
    pic2 = imresize(spic2, [600 360]);
    pic3 = imresize(spic3, [600 360]);
else
    pic1 = imresize(spic1, [480 800]);
    pic2 = imresize(spic2, [480 800]);
    pic3 = imresize(spic3, [480 800]);
end

[h1,w1]=size(pic1);
[h2,w2]=size(pic2);
[h3,w3]=size(pic3);

%=====Make separator=====
arrayM=ones(h1,10);
separator=[arrayM * 255];

% pemisah=pemisah(:);
%=====Join Images=====
d(:,:,1)=separator;
d(:,:,2)=separator;
d(:,:,3)=separator;
line = uint8(d);
sIm= imshow([pic1,line,pic2,line,pic3]);
rIm = [pic1,line,pic2,line,pic3];

img.sIm = sIm;
img.hFig = hFig;
img.rIm = rIm;
img.wpic1 = w1/3;
img.wpic2 = w2/3;
img.wpic3 = w3/3;
img.hpics = h1;
img.hFig = hFig;

```

**b. zoomImg.m**

```

function zoom = zoomImg(spic1,spic2,spic3)
img = showImg(spic1,spic2,spic3);
hSP = imscrollpanel(img.hFig,img.sIm);
api = iptgetapi(hSP);
set(hSP,'Units','normalized',...
     'Position',[0 .1 1 .9]);
hMagBox = immagbox(img.hFig,img.sIm);
api.setMagnification(api.findFitMag())
pos = get(hMagBox,'Position');
set(hMagBox,'Position',[0 0 pos(3) pos(4)])
imoverview(img.sIm);
fig = figure(img.hFig);
% imshow(img.sIm);
zoom.rIm = img.rIm;
zoom.wpic1 = img.wpic1;
zoom.wpic2 = img.wpic2;
zoom.wpic3 = img.wpic3;
zoom.hpPic = img.hpPic;
zoom.fig = fig;
zoom.api = api;

```

**c. calcImg.m**

```

function calc = calcImg(spic1,spic2,spic3,count)
global n pic RGB RGB2 RGB3 flag;
zoom = zoomImg(spic1,spic2,spic3);
pic = zoom.rIm;
RGB = pic;
hold on;
n = 0;
c = 0;
flag = 0;
repeat = 0;
jpos = zeros(12,2);
color = {'red','black','red','black'};
while repeat < 3
    %         uicontrol('Style','pushbutton','String',
'Undo',...
    %         'Position',[20 20 50 20],...
    %         'Callback',@(src,evt)callB());
    while n < count
        if(repeat == 1)
            fnplt(cscvn(point{1}),'r',1);
        elseif(repeat == 2)
            fnplt(cscvn(point{1}),'r',1);
            fnplt(cscvn(point{2}),'r',1);
        end
        [x_coord, y_coord]=ginput(1);
        x(n+1) = x_coord;
        y(n+1) = y_coord;
        %RGB = insertMarker(pic,[x_coord y_coord]);
        pos = [x(n+1) y(n+1)];
        jpos(n+1,:) = pos;
        if c > 3

```

```

        c = 0;
    end
    if(repeat == 0)
        RGB = insertMarker(pic, jpos, 'x', 'color',color(c+1),
'size', 6);
        imshow(RGB,'InitialMagnification','fit');
        flag = 1;
    elseif(repeat == 1)
        RGB2 = insertMarker(RGB , jpos, 'x',
'color',color(c+1), 'size', 6);
        imshow(RGB2,'InitialMagnification','fit');
        flag = 2;
    else
        RGB3 = insertMarker(RGB2 , jpos, 'x',
'color',color(c+1), 'size', 6);
        imshow(RGB3,'InitialMagnification','fit');
        flag = 3;
    end
    %points = cornerPoints(pos);
    n = n + 1;
    c = c + 1;
    %plot(points);
end
% ePos = [x y ; x(1) y(1)];
% point = [x x(1) ; y y(1)];
% zx = [x x(1)];
% zy = [y y(1)];
% fnplt(cscvn(point),'r',1) %Curve line
% % plot(ePos(:,1),ePos(:,2), '-b'); % Straight line
% % mask = false(size(pic));
% % mask(min(y):max(y),min(x):max(x)) = true;
% % bw = activecontour(pic, mask, 300, 'edge');
% % visboundaries(bw,'Color','r');
% % binaryimage = bw.createMask();
% bw = poly2mask(zx,zy,zoom.hpilc,
zoom.wpic1+zoom.wpic2+zoom.wpic3+200);
% imshow(bw);
% % test.bw = bw;
% numberOfPixels1 = sum(bw(:))
point{repeat+1} = [x x(1) ; y y(1)];
if(x_coord < zoom.wpic1)
    % point1 = [x x(1) ; y y(1)];
    zx = [x x(1)];
    zy = [y y(1)];
    fnplt(cscvn(point{1}),'r',1);
    % imwrite(line1,pic);
    bw = poly2mask(zx,zy,zoom.hpilc,
zoom.wpic1+zoom.wpic2+zoom.wpic3+20);
    % bw2 = edge(bw,'canny');
    numberOfPixels1 = sum(bw(:));
    pixtoml1 = (numberOfPixels1 / 434) * 0.0025
    % imshow(bw);
    uicontrol('Style','text',...
'Position',[zoom.wpic1-(zoom.wpic1-110) zoom.hpilc-
(zoom.hpilc-25) 120 20],...
'String',pixtoml1);

```

```

elseif(x_coord > zoom.wpic1 && x_coord <
zoom.wpic1+10+zoom.wpic2)
    %           point2 = [x x(1) ; y y(1)];
    zx = [x x(1)];
    zy = [y y(1)];
    fnplt(cscvn(point{1}), 'r', 1);
    fnplt(cscvn(point{2}), 'r', 1);
    %           imwrite(line2, RGB2);
    bw = poly2mask(zx, zy, zoom.hpics,
zoom.wpic1+zoom.wpic2+zoom.wpic3+20);
    %           bw2 = edge(bw, 'canny');
    numberOfPixels2 = sum(bw(:));
    pixtoml2 = (numberOfPixels2 / 434) * 0.0025
    %           imshow(bw);
    uicontrol('Style', 'text', ...
'Position', [(zoom.wpic1+zoom.wpic2+10)-
(zoom.wpic1+zoom.wpic2+120-500) zoom.hpics-(zoom.hpics-25) 120
20], ...
'String', pixtoml2);
elseif(x_coord > zoom.wpic1+20+zoom.wpic2)
    %           point3 = [x x(1) ; y y(1)];
    zx = [x x(1)];
    zy = [y y(1)];
    fnplt(cscvn(point{1}), 'r', 1);
    fnplt(cscvn(point{2}), 'r', 1);
    fnplt(cscvn(point{3}), 'r', 1);
    %           imwrite(line3, RGB3);
    bw = poly2mask(zx, zy, zoom.hpics,
zoom.wpic1+zoom.wpic2+zoom.wpic3+20);
    %           bw2 = edge(bw, 'canny');
    numberOfPixels3 = sum(bw(:));
    pixtoml3 = (numberOfPixels3 / 434) * 0.0025
    %           imshow(bw);
    uicontrol('Style', 'text', ...
'Position', [(zoom.wpic1+20+zoom.wpic2+zoom.wpic3)-
(zoom.wpic1+20+zoom.wpic2+zoom.wpic3-870) zoom.hpics-(zoom.hpics-25)
120 20], ...
'String', pixtoml3);
end
repeat = repeat + 1;
n = 0;
% F = getframe;
% overlay = imoverlay( RGB, bw2, [1 0 0] );
end
hold off
zoom.api.setMagnification(zoom.api.findFitMag())
F = getframe;
calc.F = F.cdata;
calc.inValue = pixtoml1;
calc.k1Value = pixtoml2;
calc.k2Value = pixtoml3;
close;

```



**d. GUI.m**

```

function varargout = GUI(varargin)
% GUI MATLAB code for GUI.fig
%   GUI, by itself, creates a new GUI or raises the existing
%   singleton*.
%
%   H = GUI returns the handle to a new GUI or the handle to
%   the existing singleton*.
%
%   GUI('CALLBACK',hObject,eventData,handles,...) calls the
local
%   function named CALLBACK in GUI.M with the given input
arguments.
%
%   GUI('Property','Value',...) creates a new GUI or raises the
%   existing singleton*. Starting from the left, property
value pairs are
%   applied to the GUI before GUI_OpeningFcn gets called. An
%   unrecognized property name or invalid value makes property
application
%   stop. All inputs are passed to GUI_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 GUI

% Last Modified by GUIDE v2.5 12-Aug-2017 12:44:28

% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name',       mfilename, ...
    'gui_Singleton',  gui_Singleton, ...
    'gui_OpeningFcn', @GUI_OpeningFcn, ...
    'gui_OutputFcn',  @GUI_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 GUI is made visible.

```

```

function GUI_OpeningFcn(hObject, eventdata, handles, varargin)
global flag user_canceled deg1 deg2 deg3 tempopath
% 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 GUI (see VARARGIN)

% Choose default command line output for GUI
handles.output = hObject;
deg1 = 0;
deg2 = 0;
deg3 = 0;
flag = 1;
user_canceled = 0;
tempopath = 'C: ';
% Update handles structure
guidata(hObject, handles);
% setappdata(0,'hAxes7',handles.axes7);
% setappdata(0,'hEdit10',handles.edit10);
% setappdata(0,'hEdit6',handles.edit6);
% setappdata(0,'hEdit7',handles.edit7);
% setappdata(0,'hEdit8',handles.edit7);
% setappdata(0,'hEdit9',handles.edit9);

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

% --- Outputs from this function are returned to the command line.
function varargout = GUI_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 pushbutton1.
function pushbutton1_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton1 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)

%-----> here we load image

global images path flag user_canceled tempopath images1 images3
images2
if(flag == 1 && strcmp(tempopath, 'C: '))
    if(user_canceled == 0)

```

```

        flag = 0;
    else
        flag = 1;
    end
elseif(~strcmp(tempopath, 'C:') && flag == 0)
    if(user_canceled == 1)
        t = get(handles.edit11, 'String');
        c = strfind(t, '\');
        tempopath = t(1:c(end));
    else
        c = strfind(path{1}, '\');
        tempopath = path{1}(1:c(end));
    end
end
[path, user_canceled]=imgetfile('InitialPath',tempopath,
'MultiSelect', true);
nimg = length(path);
if(user_canceled == 0)
    set(handles.edit11, 'String', path{1});
end
if(nimg > 0)
    tempopath = 'apa aja';
end

for count=1:nimg %looping memasukan data gambar variable array
    pathImg = path{count};%membaca nama file
    FileGambar = imread(pathImg);%membaca file gambar
    images{count} = FileGambar;%memasukkannya kedalam array 1
dimensi
    %    convertImg(count);
    if(strfind(pathImg, 'IN') > 0)
        axes(handles.axes3);
        imshow(images{count});
        images1 = images{count};
    elseif(strfind(pathImg, 'K1') > 0)
        axes(handles.axes2);
        imshow(images{count});
        images2 = images{count};
    elseif(strfind(pathImg, 'K2') > 0)
        axes(handles.axes1);
        imshow(images{count});
        images3 = images{count};
    end
end
% im=im2double(im); %converts to double
% showImg();
function convertImg(count)
global images
images{count}=imresize(images{count},0.8);

% --- Executes on button press in pushbutton2.
function pushbutton2_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton2 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)

```

```

global images in k1 k2 simg images3 images2 images1
if(get(handles.rb1, 'Value') == 1 && get(handles.rb2, 'Value') ==
0 && get(handles.rb3, 'Value') == 0 && get(handles.rb4, 'Value')
== 0)
    ring = calcImg(images1,images2,images3,5);
elseif(get(handles.rb1, 'Value') == 0 && get(handles.rb2, 'Value')
== 1 && get(handles.rb3, 'Value') == 0 && get(handles.rb4,
'Value') == 0)
    ring = calcImg(images1,images2,images3,6);
elseif(get(handles.rb1, 'Value') == 0 && get(handles.rb2, 'Value')
== 0 && get(handles.rb3, 'Value') == 1 && get(handles.rb4,
'Value') == 0)
    ring = calcImg(images1,images2,images3,7);
else
    ring = calcImg(images1,images2,images3,8);
end

axes(handles.axes7);
imshow(rimg.F);
set(handles.edit6, 'String', rimg.inValue);
set(handles.edit7, 'String', rimg.k1Value);
set(handles.edit8, 'String', rimg.k2Value);
Selisih = rimg.k2Value - rimg.k1Value;
t1 = 'Ketebalan dentin bertambah  ';
t2 = ' pixel';
gab = strcat(strcat(t1, strcat(' ',int2str(Selisih))), t2);
if(Selisih > 0)
    set(handles.edit10, 'String', gab);
elseif(Selisih == 0)
    set(handles.edit10, 'String', 'Ketebalan sama');
else
    set(handles.edit10, 'String', 'Ketebalan mengalami
penurunan');
end
in = rimg.inValue;
k1 = rimg.k1Value;
k2 = rimg.k2Value;
simg = rimg.F;

function edit6_Callback(hObject, eventdata, handles)
% hObject      handle to edit6 (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 edit6 as text
%          str2double(get(hObject,'String')) returns contents of
edit6 as a double

% --- Executes during object creation, after setting all
properties.
function edit6_CreateFcn(hObject, eventdata, handles)
% hObject      handle to edit6 (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.
global ring
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function edit7_Callback(hObject, eventdata, handles)
% hObject handle to edit7 (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 edit7 as text
% str2double(get(hObject,'String')) returns contents of
edit7 as a double

% --- Executes during object creation, after setting all
properties.
function edit7_CreateFcn(hObject, eventdata, handles)
% hObject handle to edit7 (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 edit8_Callback(hObject, eventdata, handles)
% hObject handle to edit8 (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 edit8 as text
% str2double(get(hObject,'String')) returns contents of
edit8 as a double

```

```

% --- Executes during object creation, after setting all
properties.
function edit8_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit8 (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 edit9_Callback(hObject, eventdata, handles)
% hObject    handle to edit9 (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 edit9 as text
%         str2double(get(hObject,'String')) returns contents of
edit9 as a double
global expertJudge
expertJudge = get(hObject,'String');

% --- Executes during object creation, after setting all
properties.
function edit9_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit9 (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 pushbutton6.
function pushbutton6_Callback(hObject, eventdata, handles)
global expertJudge images simg in k1 k2 path assestment sondasi
palpasi perkusi CE Asim Sim images1 images3 images2
% hObject    handle to pushbutton6 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)

```

```

S = struct();
S.Path = path{1};
S.ImageIn = images1;
S.ImageK1 = images2;
S.ImageK2 = images3;
S.ResultImage = simg;
S.InValue = in;
S.K1Value = k1;
S.K2Value = k2;
S.ExpertJudge = expertJudge;
S.Sondasi = sondasi;
S.Perkusi = perkusi;
S.CE = CE;
S.Palpasi = palpasi;
asessment = get(handles.edit10, 'String');
S.Asessment = asessment;
S.Asim = Asim;
S.Sim = Sim;

[filename, pathname, filterindex] = uiputfile( ...
    {'*.mat;*.jpg', ...
    'MATLAB Files (*.mat,*.jpg)';
    '*.mat', 'MAT-files (*.mat)'; ...
    '*.jpg', 'Image Files (*.jpg)'}, ...
    'Save as');
if isequal(filename,0) || isequal(pathname,0)
    set(handles.text28, 'String', 'Saving file canceled');
else
    if(filterindex == 1)
        save(strcat(pathname,filename), '-struct', 'S');
        imwrite(simg, strcat(pathname, strcat(filename(1:end-
4), '.jpg')));
        set(handles.text28, 'String', ['Save .mat and .jpg
completed ', fullfile(pathname, filename)]);
    elseif(filterindex == 2)
        save(strcat(pathname,filename), '-struct', 'S');
        set(handles.text28, 'String', ['Save .mat completed ',
fullfile(pathname, filename)]);
    elseif(filterindex == 3)
        imwrite(simg, strcat(pathname,filename));
        set(handles.text28, 'String', ['Save .jpg completed ',
fullfile(pathname, filename)]);
    end
end

% --- Executes on button press in pushbutton7.
function pushbutton7_Callback(hObject, eventdata, handles)
global tempPath
% hObject    handle to pushbutton7 (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, 'reset');
cla(handles.axes2, 'reset');
cla(handles.axes3, 'reset');
cla(handles.axes7, 'reset');

```

```

set(handles.axes1, 'xtick', [])
set(handles.axes1, 'ytick', [])
set(handles.axes1, 'XColor', 'white')
set(handles.axes1, 'YColor', 'white')
set(handles.axes2, 'xtick', [])
set(handles.axes2, 'ytick', [])
set(handles.axes2, 'XColor', 'white')
set(handles.axes2, 'YColor', 'white')
set(handles.axes3, 'xtick', [])
set(handles.axes3, 'ytick', [])
set(handles.axes3, 'XColor', 'white')
set(handles.axes3, 'YColor', 'white')
set(handles.axes7, 'xtick', [])
set(handles.axes7, 'ytick', [])
set(handles.axes7, 'XColor', 'white')
set(handles.axes7, 'YColor', 'white')
set(handles.edit6, 'String', '');
set(handles.edit7, 'String', '');
set(handles.edit8, 'String', '');
set(handles.edit9, 'String', '');
if(strlength(get(handles.edit11, 'String')) > 0)
    t = get(handles.edit11, 'String');
    c = strfind(t, '\');
    temp_path = t(1:c(end));
end
set(handles.edit11, 'String', '');
set(handles.popupmenu3, 'Value', 1);
set(handles.popupmenu4, 'Value', 1);
set(handles.popupmenu5, 'Value', 1);
set(handles.popupmenu6, 'Value', 1);
set(handles.edit10, 'String', '');
set(handles.rb5, 'Value', 0);
set(handles.rb6, 'Value', 0);
set(handles.radiobutton13, 'Value', 1);
set(handles.text28, 'String', 'Reset completed ');

function edit10_Callback(hObject, eventdata, handles)
% hObject    handle to edit10 (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 edit10 as text
%        str2double(get(hObject, 'String')) returns contents of
edit10 as a double
% global saveFile
% saveFile = get(hObject, 'String');

global assestment
assestment = get(hObject, 'String');

% --- Executes during object creation, after setting all
properties.

```



```

function edit10_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit10 (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 pushbutton8.
function pushbutton8_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton8 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)
% GUI2;
[filename,pathname] = uigetfile('*.mat','Select the .mat file');
dataload = load(strcat(pathname,filename));
set(handles.edit11, 'String', dataload.Path);
axes(handles.axes3);
imshow(dataload.ImageIn);
axes(handles.axes2);
imshow(dataload.ImageK1);
axes(handles.axes1);
imshow(dataload.ImageK2);
axes(handles.axes7);
imshow(dataload.ResultImage );
set(handles.edit6, 'String', dataload.InValue);
set(handles.edit7, 'String', dataload.K1Value);
set(handles.edit8, 'String', dataload.K2Value);
set(handles.edit9, 'String', dataload.ExpertJudge);
set(handles.popupmenu3, 'Value', dataload.Sondasi);
set(handles.popupmenu4, 'Value', dataload.Palpasi);
set(handles.popupmenu5, 'Value', dataload.Perkusi);
set(handles.popupmenu6, 'Value', dataload.CE);
set(handles.edit10, 'String', dataload.Assestment);
if(dataload.Asim == 1)
    set(handles.rb5, 'Value', 1);
    set(handles.rb6, 'Value', 0);
elseif(dataload.Sim == 1)
    set(handles.rb5, 'Value', 0);
    set(handles.rb6, 'Value', 1);
end
set(handles.text28, 'String', ['Load .mat completed ',
fullfile(pathname, filename)]);

function edit11_Callback(hObject, eventdata, handles)
% hObject    handle to edit11 (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 edit11 as text
%         str2double(get(hObject,'String')) returns contents of
edit11 as a double

% --- Executes during object creation, after setting all
properties.
function edit11_CreateFcn(hObject, eventdata, handles)
% hObject      handle to edit11 (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 pushbutton2.
function pushbutton9_Callback(hObject, eventdata, handles)
% hObject      handle to pushbutton2 (see GCBO)
% eventdata    reserved - to be defined in a future version of
MATLAB
% handles      structure with handles and user data (see GUIDATA)

function edit24_Callback(hObject, eventdata, handles)
% hObject      handle to edit6 (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 edit6 as text
%         str2double(get(hObject,'String')) returns contents of
edit6 as a double

% --- Executes during object creation, after setting all
properties.
function edit24_CreateFcn(hObject, eventdata, handles)
% hObject      handle to edit6 (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 edit25_Callback(hObject, eventdata, handles)
% hObject    handle to edit7 (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 edit7 as text
%       str2double(get(hObject,'String')) returns contents of
edit7 as a double

% --- Executes during object creation, after setting all
properties.
function edit25_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit7 (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 edit26_Callback(hObject, eventdata, handles)
% hObject    handle to edit8 (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 edit8 as text
%       str2double(get(hObject,'String')) returns contents of
edit8 as a double

% --- Executes during object creation, after setting all
properties.
function edit26_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit8 (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 edit27_Callback(hObject, eventdata, handles)
% hObject    handle to edit9 (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 edit9 as text
%       str2double(get(hObject,'String')) returns contents of
edit9 as a double

```

```

% --- Executes during object creation, after setting all
properties.

```

```

function edit27_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit9 (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 edit40_Callback(hObject, eventdata, handles)
% hObject    handle to edit40 (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 edit40 as text
%       str2double(get(hObject,'String')) returns contents of
edit40 as a double

```

```

% --- Executes during object creation, after setting all
properties.

```

```

function edit40_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit40 (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 edit41_Callback(hObject, eventdata, handles)
% hObject    handle to edit41 (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 edit41 as text
%       str2double(get(hObject,'String')) returns contents of
edit41 as a double

```

```

% --- Executes during object creation, after setting all
properties.
function edit41_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit41 (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 edit42_Callback(hObject, eventdata, handles)
% hObject    handle to edit42 (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 edit42 as text
%       str2double(get(hObject,'String')) returns contents of
edit42 as a double

```

```

% --- Executes during object creation, after setting all
properties.
function edit42_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit42 (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 edit43_Callback(hObject, eventdata, handles)
% hObject    handle to edit10 (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 edit10 as text
%         str2double(get(hObject,'String')) returns contents of
edit10 as a double

% --- Executes during object creation, after setting all
properties.
function edit43_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit10 (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 edit28_Callback(hObject, eventdata, handles)
% hObject    handle to edit28 (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 edit28 as text
%         str2double(get(hObject,'String')) returns contents of
edit28 as a double
```

```
% --- Executes during object creation, after setting all
properties.
```

```
function edit28_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit28 (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 edit29_Callback(hObject, eventdata, handles)
% hObject    handle to edit29 (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 edit29 as text
%         str2double(get(hObject,'String')) returns contents of
edit29 as a double
```

```
% --- Executes during object creation, after setting all
properties.
```

```
function edit29_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit29 (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 edit30_Callback(hObject, eventdata, handles)
```

```

% hObject    handle to edit30 (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 edit30 as text
%         str2double(get(hObject,'String')) returns contents of
edit30 as a double

% --- Executes during object creation, after setting all
properties.
function edit30_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit30 (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 edit31_Callback(hObject, eventdata, handles)
% hObject    handle to edit31 (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 edit31 as text
%         str2double(get(hObject,'String')) returns contents of
edit31 as a double

% --- Executes during object creation, after setting all
properties.
function edit31_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit31 (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 edit32_Callback(hObject, eventdata, handles)
% hObject      handle to edit32 (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 edit32 as text
%         str2double(get(hObject,'String')) returns contents of
edit32 as a double

% --- Executes during object creation, after setting all
properties.
function edit32_CreateFcn(hObject, eventdata, handles)
% hObject      handle to edit32 (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 edit33_Callback(hObject, eventdata, handles)
% hObject      handle to edit33 (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 edit33 as text
%         str2double(get(hObject,'String')) returns contents of
edit33 as a double

% --- Executes during object creation, after setting all
properties.
function edit33_CreateFcn(hObject, eventdata, handles)
% hObject      handle to edit33 (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 edit34_Callback(hObject, eventdata, handles)
% hObject    handle to edit34 (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 edit34 as text
%        str2double(get(hObject,'String')) returns contents of
edit34 as a double

```

```

% --- Executes during object creation, after setting all
properties.

```

```

function edit34_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit34 (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 edit35_Callback(hObject, eventdata, handles)
% hObject    handle to edit35 (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 edit35 as text
%        str2double(get(hObject,'String')) returns contents of
edit35 as a double

```

```

% --- Executes during object creation, after setting all
properties.

```

```

function edit35_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit35 (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 edit36_Callback(hObject, eventdata, handles)
% hObject    handle to edit6 (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 edit6 as text
%       str2double(get(hObject,'String')) returns contents of
edit6 as a double

% --- Executes during object creation, after setting all
properties.
function edit36_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit6 (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 edit37_Callback(hObject, eventdata, handles)
% hObject    handle to edit7 (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 edit7 as text
%       str2double(get(hObject,'String')) returns contents of
edit7 as a double

% --- Executes during object creation, after setting all
properties.

```

```

function edit37_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit7 (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 edit38_Callback(hObject, eventdata, handles)
% hObject    handle to edit8 (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 edit8 as text
%       str2double(get(hObject,'String')) returns contents of
edit8 as a double

```

```

% --- Executes during object creation, after setting all
properties.
function edit38_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit8 (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 edit39_Callback(hObject, eventdata, handles)
% hObject    handle to edit9 (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 edit9 as text
%       str2double(get(hObject,'String')) returns contents of
edit9 as a double

```

```

% --- Executes during object creation, after setting all
properties.
function edit39_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit9 (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 selection change in popupmenu3.
function popupmenu3_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu3 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)
global sondasi
contents = get(handles.popupmenu3,'String');
% sondasi = contents{get(handles.popupmenu3,'Value')};
sondasi = get(handles.popupmenu3,'Value');
% Hints: contents = cellstr(get(hObject,'String')) returns
popupmenu3 contents as cell array
%         contents{get(hObject,'Value')} returns selected item from
popupmenu3

% --- Executes during object creation, after setting all
properties.
function popupmenu3_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu3 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: popupmenu 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 selection change in popupmenu4.

```

```

function popupmenu4_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu4 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)

global palpasi
contents = get(handles.popupmenu4, 'String');
% palpasi = contents{get(handles.popupmenu4, 'Value')};
palpasi = get(handles.popupmenu4, 'Value');

% Hints: contents = cellstr(get(hObject, 'String')) returns
popupmenu4 contents as cell array
%         contents{get(hObject, 'Value')} returns selected item from
popupmenu4

% --- Executes during object creation, after setting all
properties.
function popupmenu4_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popupmenu4 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: popupmenu 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 selection change in popupmenu5.
function popupmenu5_Callback(hObject, eventdata, handles)
% hObject    handle to popupmenu5 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)

global perkusi
contents = get(handles.popupmenu5, 'String');
% perkusi = contents{get(handles.popupmenu5, 'Value')};
perkusi = get(handles.popupmenu5, 'Value');

% Hints: contents = cellstr(get(hObject, 'String')) returns
popupmenu5 contents as cell array
%         contents{get(hObject, 'Value')} returns selected item from
popupmenu5

```

```

% --- Executes during object creation, after setting all
properties.
function popumenu5_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popumenu5 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: popumenu 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 selection change in popumenu6.
function popumenu6_Callback(hObject, eventdata, handles)
% hObject    handle to popumenu6 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)

global CE
contents = get(handles.popumenu6,'String');
% CE = contents{get(handles.popumenu6,'Value')};
CE = get(handles.popumenu6,'Value');

% Hints: contents = cellstr(get(hObject,'String')) returns
popumenu6 contents as cell array
%         contents{get(hObject,'Value')} returns selected item from
popumenu6

% --- Executes during object creation, after setting all
properties.
function popumenu6_CreateFcn(hObject, eventdata, handles)
% hObject    handle to popumenu6 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: popumenu 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 rb5.
function rb5_Callback(hObject, eventdata, handles)
% hObject    handle to rb5 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)
global Asim
Asim = get(hObject, 'Value');
if(Asim == 0)
    Asim = 0;
end
% Hint: get(hObject,'Value') returns toggle state of rb5

% --- Executes on button press in rb6.
function rb6_Callback(hObject, eventdata, handles)
% hObject    handle to rb6 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)
global Sim
Sim = get(hObject, 'Value');
if(Sim == 0)
    Sim = 0;
end
% Hint: get(hObject,'Value') returns toggle state of rb6

% --- Executes during object creation, after setting all
properties.
function radiobutton13_CreateFcn(hObject, eventdata, handles)
% hObject    handle to radiobutton13 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% --- Executes on button press in rot1.
function rot1_Callback(hObject, eventdata, handles)
% hObject    handle to rot1 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)
global images path deg1 images1
ning = length(path);
for count=1:ning %looping memasukan data gambar variable array
    pathImg = path{count};%membaca nama file
    FileGambar = imread(pathImg);%membaca file gambar
    images{count} = FileGambar;%memasukannya kedalam array 1
dimensi
    if(strfind(pathImg, 'IN') > 0)
        %            convertImg(count);
        deg1 = deg1 + 90;
        if(deg1 == 360)
            deg1 = 0;
        end
    end
end

```



```

        end
        images1 = imrotate(images{count}, deg1);
        axes(handles.axes3);
        imshow(images1);
    end
end

% --- Executes on button press in rot2.
function rot2_Callback(hObject, eventdata, handles)
% hObject    handle to rot2 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)
global images path deg2 images2
nimg = length(path);
for count=1:nimg %looping memasukan data gambar variable array
    pathImg = path{count};%membaca nama file
    FileGambar = imread(pathImg);%membaca file gambar
    images{count} = FileGambar;%memasukannya kedalam array 1
dimensi
    if(strfind(pathImg, 'K1') > 0)
        %        convertImg(count);
        deg2 = deg2 + 90;
        if(deg2 == 360)
            deg2 = 0;
        end
        images2 = imrotate(images{count}, deg2);
        axes(handles.axes2);
        imshow(images2);
    end
end

% --- Executes on button press in rot3.
function rot3_Callback(hObject, eventdata, handles)
% hObject    handle to rot3 (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)
global images path deg3 images3
nimg = length(path);
for count=1:nimg %looping memasukan data gambar variable array
    pathImg = path{count};%membaca nama file
    FileGambar = imread(pathImg);%membaca file gambar
    images{count} = FileGambar;%memasukannya kedalam array 1
dimensi
    if(strfind(pathImg, 'K2') > 0)
        %        convertImg(count);
        deg3 = deg3 + 90;
        if(deg3 == 360)
            deg3 = 0;
        end
        images3 = imrotate(images{count}, deg3);
        axes(handles.axes1);
        imshow(images3);
    end
end
end

```