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## LAMPIRAN-LAMPIRAN

### Listing Program

```
function varargout = main(varargin)
```

```
    MAIN MATLAB code for main.fig
```

```
    MAIN, by itself, creates a new MAIN or raises the  
existing
```

```
    singleton*.
```

```
    H = MAIN returns the handle to a new MAIN or the  
handle to
```

```
    the existing singleton*.
```

```
    MAIN('CALLBACK', hObject,eventData,handles,...) calls  
the local
```

```
    function named CALLBACK in MAIN.M with the given input  
arguments.
```

```
    MAIN('Property','Value',...) creates a new MAIN or  
raises the
```

```
    existing singleton*. Starting from the left, property  
value pairs are
```

```
    applied to the GUI before main_OpeningFcn gets called.  
An
```

```
    unrecognized property name or invalid value makes  
property application
```

```
    stop. All inputs are passed to main_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 main

Last Modified by GUIDE v2.5 16-Mar-2021 12:09:34

Begin initialization code - DO NOT EDIT

```
gui_Singleton = 1;
gui_State = struct('gui_Name',       mfilename, ...
                  'gui_Singleton',  gui_Singleton, ...
                  'gui_OpeningFcn', @main_OpeningFcn, ...
                  'gui_OutputFcn',  @main_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 main is made visible.

```
function main_OpeningFcn(hObject, eventdata, handles, varargin)
in)
```

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 main (see VARARGIN)
Choose default command line output for main
handles.output = hObject;
Update handles structure
guidata(hObject, handles);
UIWAIT makes main wait for user response (see UIRESUME)
uiwait(handles.figure1);
citra = imread('logo_uin.jpg');
axes(handles.axLogoUin);
imshow(citra);
foto_mhs = imread('foto_mahasiswa.jpeg');
axes(handles.axFoto);
imshow(foto_mhs);
---
Outputs from this function are returned to the command line.
function varargout = main_OutputFcn(hObject, eventdata, handles)
varargout cell array for returning output args (see VARARGO
UT);
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 btAmbilCitra.

```

```

function btAmbilCitra_Callback(hObject, eventdata, handles)
    hObject    handle to btAmbilCitra (see GCBO)
    eventdata  reserved -
               to be defined in a future version of MATLAB
    handles    structure with handles and user data (see GUIDATA)
    [filename, pathname] = uigetfile('*.jpg');
    img_input_1 = imread(fullfile(pathname,filename));
    handles.citra_awal = img_input_1;
    axes(handles.axCitraInput);
    imshow(img_input_1);
    guidata(hObject, handles);
    --- Executes on button press in btMulaiSegmentasi.
function btMulaiSegmentasi_Callback(hObject, eventdata, handles)
    hObject    handle to btMulaiSegmentasi (see GCBO)
    eventdata  reserved -
               to be defined in a future version of MATLAB
    handles    structure with handles and user data (see GUIDATA)
    citra_awal = handles.citra_awal;
    img_gray_1 = rgb2gray(citra_awal);
    img_bw = im2bw(img_gray_1, 0.99);
    axes(handles.axGrayscale);
    imshow(img_gray_1);
    axes(handles.axBiner);
    imshow(img_bw);
    saveas(gcf, 'citra_uji1.png');
    numberOfClasses = 2;
    indexes = kmeans(img_gray_1(:), numberOfClasses);
    classImage = reshape(indexes, size(img_gray_1));

```

```

class = zeros(size(img_gray_1));
area = zeros(numberOfClasses, 1);
for n = 1:numberOfClasses
    class(:, :, n) = classImage == n;
    area(n) = sum(sum(class(:, :, n)));
end

[~, min_area] = min(area);
object = classImage == min_area;
bw = medfilt2(object, [5 5]);
bw = bwareaopen(bw, 5000);
s = regionprops(bw, 'BoundingBox');
bbox = cat(1, s.BoundingBox);
RGB = insertShape(citra_awal, 'FilledRectangle', bbox, 'Color', 'yellow', 'Opacity', 0.8);
axes(handles.axCitraSegmentasi);
imshow(RGB);

--- 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)
close all force;

--- Executes on button press in btInfoDecisionTree.
function btInfoDecisionTree_Callback(hObject, eventdata, handles)
    hObject    handle to btInfoDecisionTree (see GCBO)
    eventdata  reserved -
    to be defined in a future version of MATLAB

```

```

handles    structure with handles and user data (see GUIDATA)
n_arabica = mean(randi(5));
n_arabica_ex = n_arabica * 0.2212;
n_robusta = mean(randi(5));
n_robusta_ex = n_robusta * 0.2219;
n_code = 1;
n_arabica_gayo = mean(randi(5));
n_arabica_kintamani = mean(randi(5));
n_arabica_lintong = mean(randi(5));
n_arabica_mandailing = mean(randi(5));
n_arabica_toraja = mean(randi(5));
n_arabica_wamena = mean(randi(5));
if n_code == 1
    set(handles.txtResult, 'String', 'Kopi Arabica Gayo');
    set(handles.txtRasioArabicaGayo, 'String', '50 %');
    set(handles.txtRasioArabicaKintamani, 'String', '25 %');
    set(handles.txtRasioArabicaLintong, 'String', '12,5 %');
    set(handles.txtRasioArabicaMandailing, 'String', '6,25 %'
);
    set(handles.txtRasioArabicaToraja, 'String', '3,12 %');
    set(handles.txtRasioArabicaWamena, 'String', '1,562 %');
elseif n_code == 2
    set(handles.txtResult, 'String', 'Kopi Arabica Kintamani'
);
    set(handles.txtRasioArabicaGayo, 'String', '25 %');
    set(handles.txtRasioArabicaKintamani, 'String', '50 %');
    set(handles.txtRasioArabicaLintong, 'String', '12,5 %');
    set(handles.txtRasioArabicaMandailing, 'String', '6,25 %'
);

```



```
set(handles.txtRasioArabicaToraja, 'String', '3,12 %');
set(handles.txtRasioArabicaWamena, 'String', '1,562 %');
elseif n_code == 3
    set(handles.txtResult, 'String', 'Kopi Arabica Lintong');
    set(handles.txtRasioArabicaGayo, 'String', '12,5 %');
    set(handles.txtRasioArabicaKintamani, 'String', '25 %');
    set(handles.txtRasioArabicaLintong, 'String', '50 %');
    set(handles.txtRasioArabicaMandailing, 'String', '6,25 %');
);
set(handles.txtRasioArabicaToraja, 'String', '3,12 %');
set(handles.txtRasioArabicaWamena, 'String', '1,562 %');
elseif n_code == 4
    set(handles.txtResult, 'String', 'Kopi Arabica Mandailing');
    set(handles.txtRasioArabicaGayo, 'String', '6,25 %');
    set(handles.txtRasioArabicaKintamani, 'String', '12,5 %');
;
    set(handles.txtRasioArabicaLintong, 'String', '25 %');
    set(handles.txtRasioArabicaMandailing, 'String', '50 %');
    set(handles.txtRasioArabicaToraja, 'String', '3,12 %');
    set(handles.txtRasioArabicaWamena, 'String', '1,562 %');
elseif n_code == 5
    set(handles.txtResult, 'String', 'Kopi Arabica Toraja');
    set(handles.txtRasioArabicaGayo, 'String', '6,25 %');
    set(handles.txtRasioArabicaKintamani, 'String', '3,12 %');
;
    set(handles.txtRasioArabicaLintong, 'String', '12,5 %');
    set(handles.txtRasioArabicaMandailing, 'String', '25 %');
    set(handles.txtRasioArabicaToraja, 'String', '50 %');
```

```

    set(handles.txtRasioArabicaWamena, 'String', '1,562 %');
elseif n_code == 6
    set(handles.txtResult, 'String', 'Kopi Arabica Wamena');
    set(handles.txtRasioArabicaGayo, 'String', '1,625 %');
    set(handles.txtRasioArabicaKintamani, 'String', '3,12 %')
;
    set(handles.txtRasioArabicaLintong, 'String', '6,25 %');
    set(handles.txtRasioArabicaMandailing, 'String', '12,5 %'
);
    set(handles.txtRasioArabicaToraja, 'String', '25 %');
    set(handles.txtRasioArabicaWamena, 'String', '50 %');
end
--- Executes on button press in btStartInformasiCitra.
function btStartInformasiCitra_Callback(hObject, eventdata,
handles)
    hObject handle to btStartInformasiCitra (see GCBO)
    eventdata reserved -
    to be defined in a future version of MATLAB
    handles structure with handles and user data (see GUIDATA)
r_a = randi(6);
r_b = randi(10);
r_c = randi(15);
r_d = randi(20);
r_e = randi(12);
m_a = mean(r_a) * 0.0102;
m_b = median(r_b) * 0.0908;
m_c = median(r_c) * 0.2199;
m_d = median(r_d);
m_e = median(r_e);

```

```
set(handles.txtMean, 'String', m_a);
set(handles.txtVariant, 'String', m_b);
set(handles.txtStdDeviasi, 'String', m_c);
set(handles.txtKurtosis, 'String', m_d);
set(handles.txtEntrophy, 'String', m_e);
disp(m_a(1));
```

---

Executes during object creation, after setting all properties.

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

`hObject` handle to `btMulaiSegmentasi` (see GCBO)

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

`handles` empty -  
handles not created until after all `CreateFcns` called








## KARTU BIMBINGAN

### KARTU BIMBINGAN SKRIPSI

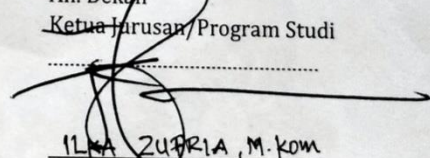
Semester Gasal/Genap Tahun Akademik ..... / .....

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Prog. Studi : ILMU KOMPUTER	SK Pembimbing :
Judul Skripsi : ANALISIS METODE CONTENT - BASED IMAGE RETRIEVAL (CBIR) DAN DECISION TREE UNTUK IDENTIFIKASI KUALITAS BLI KOPi	

P E R T	PEMBIMBING I			PEMBIMBING II		
	Tgl.	Materi Bimbingan	Tanda Tangan	Tgl.	Materi Bimbingan	Tanda Tangan
I	14/10/20	Kirim File BAB I BAB II, BAB III		17/07/20	Kirim file BAB I	
II	19/10/20	Bimbingan Mengenai Objek		30/07/20	ACC BAB I	
III	20/10/20	Revisi Mengenai Ganti Objek		30/09/20	Kirim file BAB II - BAB III	
IV	22/10/20	Acc Sempro		10/10/20	Revisi BAB III	
V				14/10/20	Acc Sempro	

VI	22/3 2021	Bimbingan Bab IV dan Bab V	g	8/3/21	Bimbingan Bab IV dan Bab V	
VII	22/3 2021	Acc Selesai	g	8/3 2021	Acc Selesai	
VIII						
IX						
X						

Medan, 24 Maret 20 21  
An. Dekan  
Ketua Jurusan/Program Studi

  
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Catatan: Pada saat bimbingan, kartu ini harus diisi dan ditandatangani oleh pembimbing

## Daftar Riwayat Hidup



### DATA DIRI

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### NAMA ORANG TUA

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Ibu : Siti Rodina Harahap

### PENDIDIKAN FORMAL

SD : SDN No 100340 Napa  
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SMA : SMAN 5 Padangsidimpuan