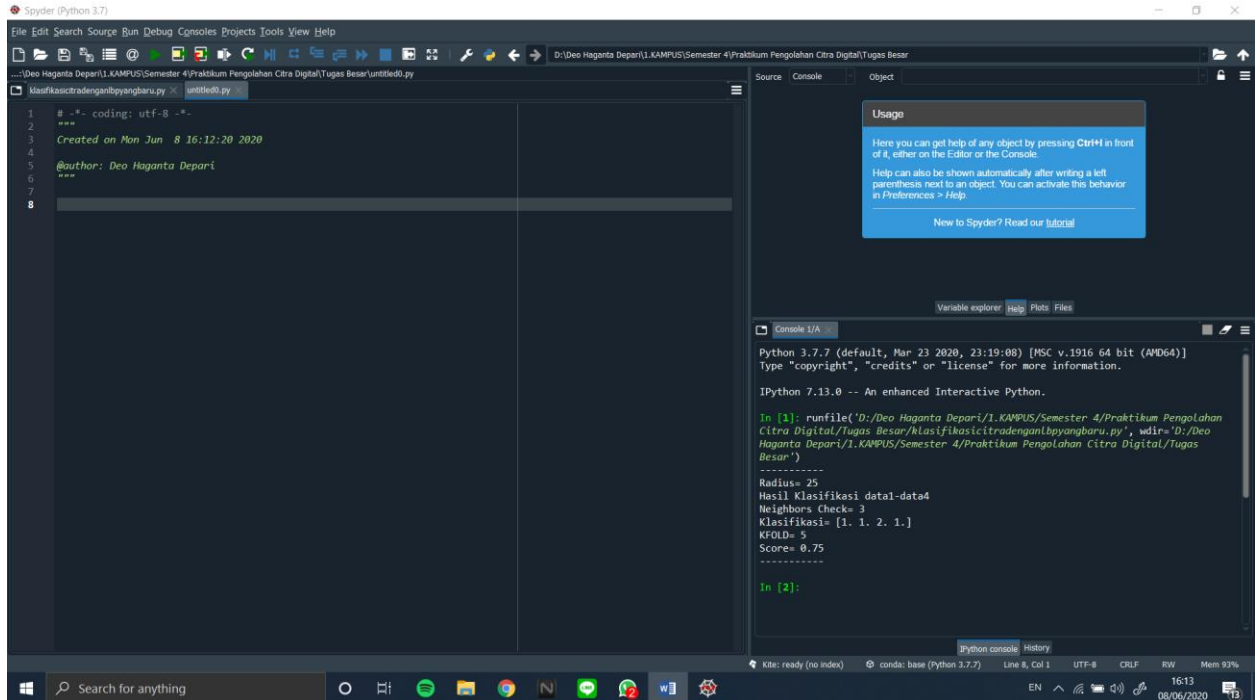


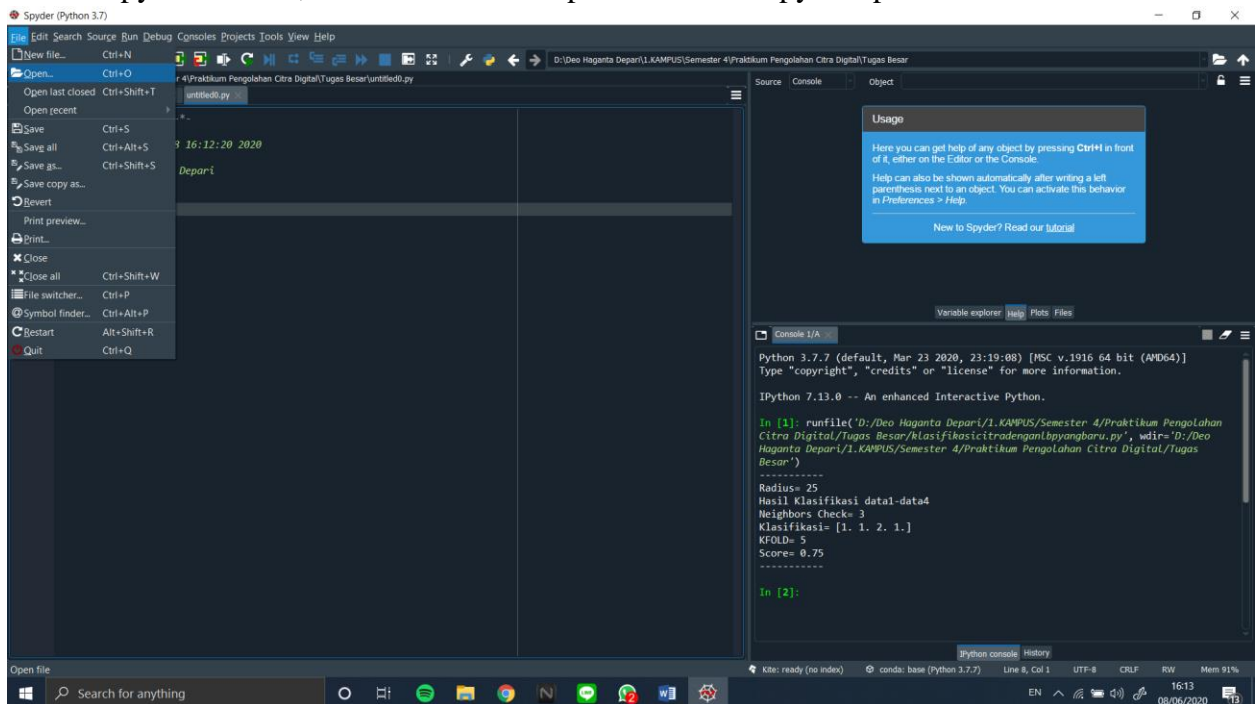
Deo Haganta Depari 1810511104
Albestty Islamyati Rafeli 1810511110
David 1810511094

Tutorial Menjalankan Program

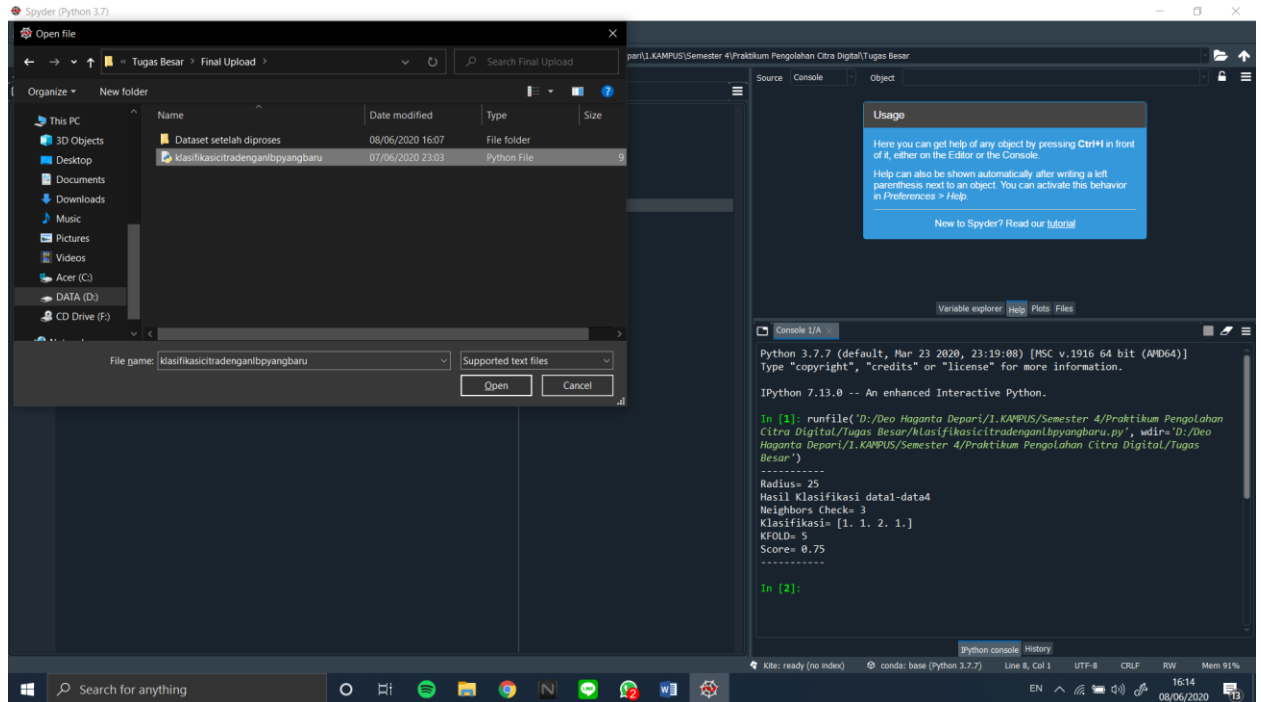
1. Buka IDE untuk menjalankan, program Pyhthon. Disini digunakan spyder.



2. Setelah spyder terbuka, maka klik File -> Open -> Cari file .py -> open



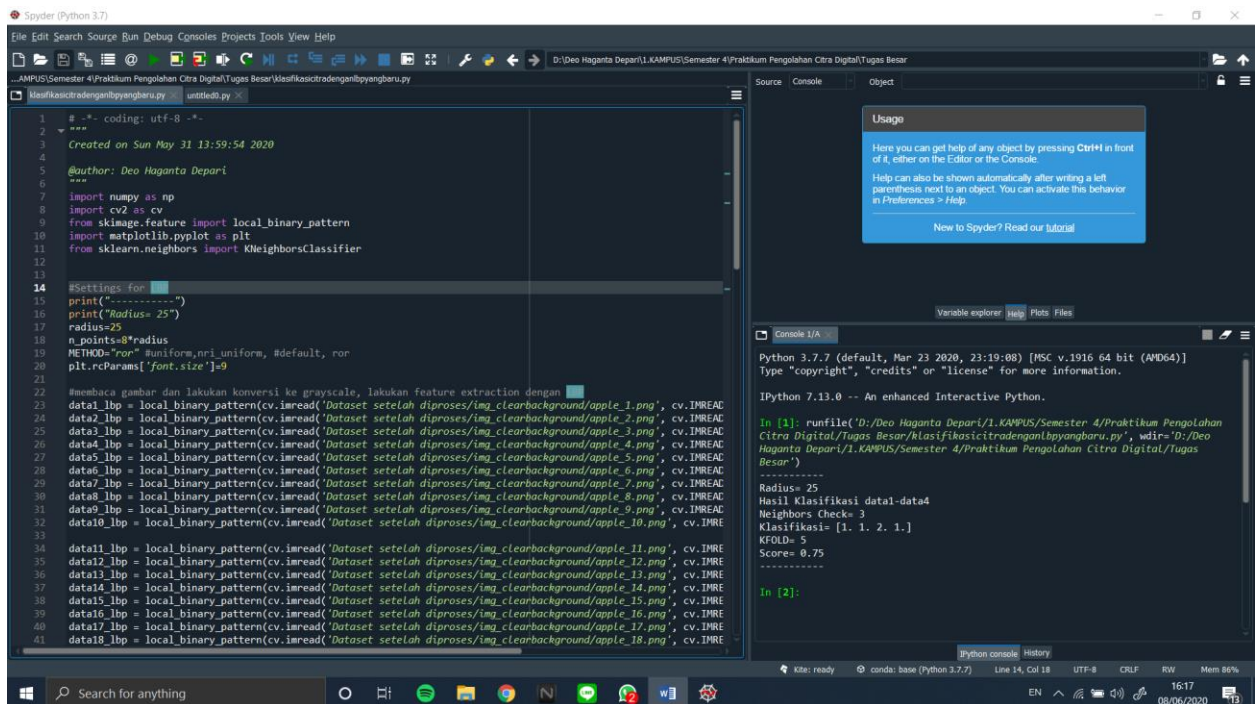
Deo Haganta Depari 1810511104
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David 1810511094



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3. Setelah terbuka pastikan pengaturan sudah benar dengan membuat variabel dibawah dengan nilai yang tepat

Variabel	Nilai
Radius	25
N_points	8
METHOD	"ror"
n_neighbors	3
cv	5



```
1 # -*- coding: utf-8 -*-
2 """
3 Created on Sun May 31 13:59:54 2020
4
5 @author: Deo Haganta Depari
6 """
7 import numpy as np
8 import cv2 as cv
9 from skimage.feature import local_binary_pattern
10 import matplotlib.pyplot as plt
11 from sklearn.neighbors import KNeighborsClassifier
12
13
14 #Settings for
15 print("-----")
16 print("Radius= 25")
17 radius=25
18 n_points=8*radius
19 METHOD="ror" #uniform,nri_uniform, #default, ror
20 plt.rcParams['font.size']=9
21
22 #membaca gambar dan lakukan konversi ke grayscale, lakukan feature extraction dengan
23 data1_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_1.png'), cv.IMREAD
24 data2_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_2.png'), cv.IMREAD
25 data3_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_3.png'), cv.IMREAD
26 data4_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_4.png'), cv.IMREAD
27 data5_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_5.png'), cv.IMREAD
28 data6_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_6.png'), cv.IMREAD
29 data7_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_7.png'), cv.IMREAD
30 data8_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_8.png'), cv.IMREAD
31 data9_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_9.png'), cv.IMREAD
32 data10_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_10.png'), cv.IMRE
33
34 data11_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_11.png'), cv.IMRE
35 data12_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_12.png'), cv.IMRE
36 data13_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_13.png'), cv.IMRE
37 data14_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_14.png'), cv.IMRE
38 data15_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_15.png'), cv.IMRE
39 data16_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_16.png'), cv.IMRE
40 data17_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_17.png'), cv.IMRE
41 data18_lbp = local_binary_pattern(cv.imread('Dataset setelah diproses/img_clearbackground/apple_18.png'), cv.IMRE
```

Usage

Here you can get help of any object by pressing **Ctrl+H** in front of it, either on the Editor or the Console.

Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in **Preferences > Help**.

[New to Spyder? Read our tutorial](#)

Variable explorer | Help | Plots | Files

Console 1/A

Python 3.7.7 (default, Mar 23 2020, 23:19:08) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license()" for more information.

IPython 7.13.0 -- An enhanced Interactive Python.

In [1]: runfile('D:/Deo Haganta Depari/1.KAMPUS/Semester 4/Praktikum Pengolahan Citra Digital/Tugas Besar/Klasifikasitradenganlbp.pyangbaru.py', wdir='D:/Deo Haganta Depari/1.KAMPUS/Semester 4/Praktikum Pengolahan Citra Digital/Tugas Besar')

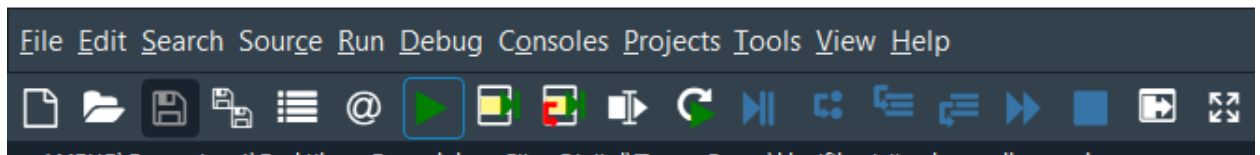
Radius= 25
Hasil Klasifikasi data1-data4
Neighbors Check= 3
Klasifikasi= [1. 1. 2. 1.]
KFOLD= 5
Score= 0.75

In [2]:

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- Setelah di pilih method maka, klik run

 Spyder (Python 3.7)



- Maka outpun yang akan keluar seperti ini di console.

```
Console 1/A x
IPython 7.13.0 -- An enhanced Interactive Python.

In [1]: runfile('D:/Deo Haganta Depari/1.KAMPUS/Semester 4/Praktikum Pengolahan
Citra Digital/Tugas Besar/klasifikasicitradenganlbpyangbaru.py', wdir='D:/Deo
Haganta Depari/1.KAMPUS/Semester 4/Praktikum Pengolahan Citra Digital/Tugas
Besar')
-----
Radius= 25
Hasil Klasifikasi data1-data4
Neighbors Check= 3
Klasifikasi= [1. 1. 2. 1.]
KFOLD= 5
Score= 0.75
-----
```