13 November 21

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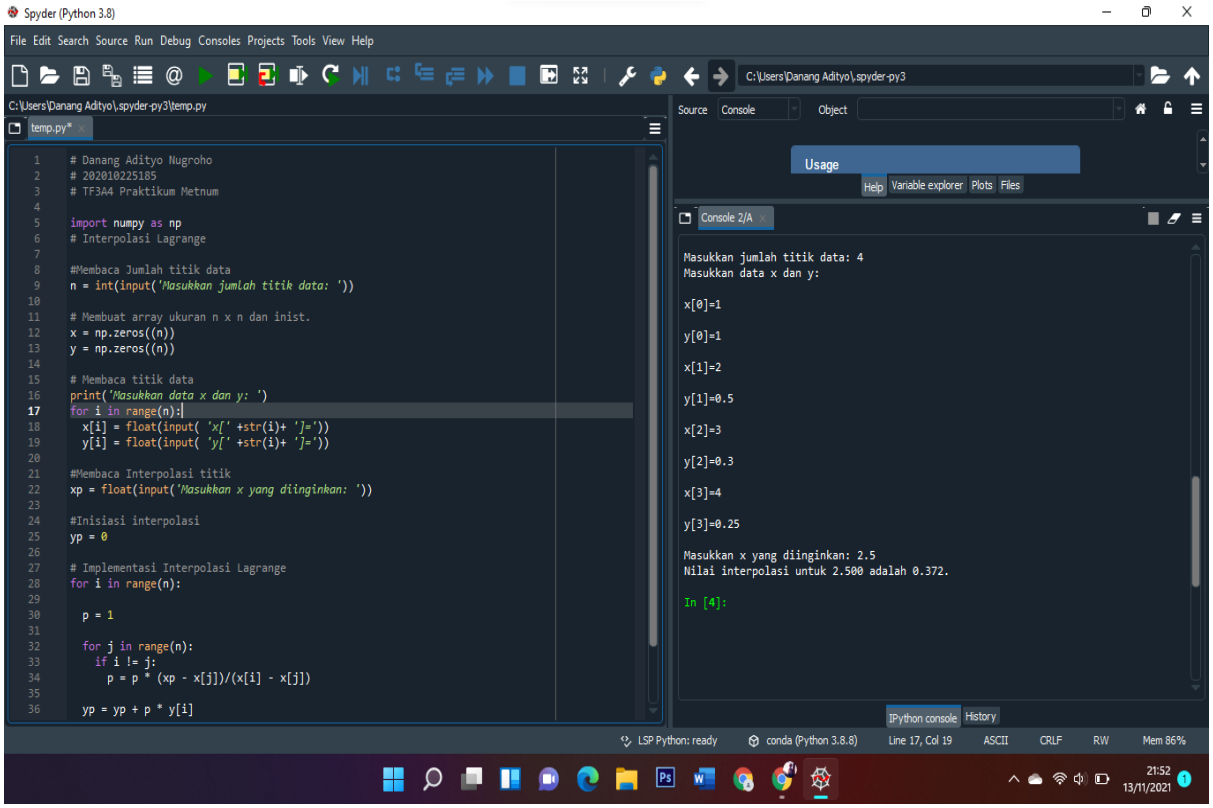
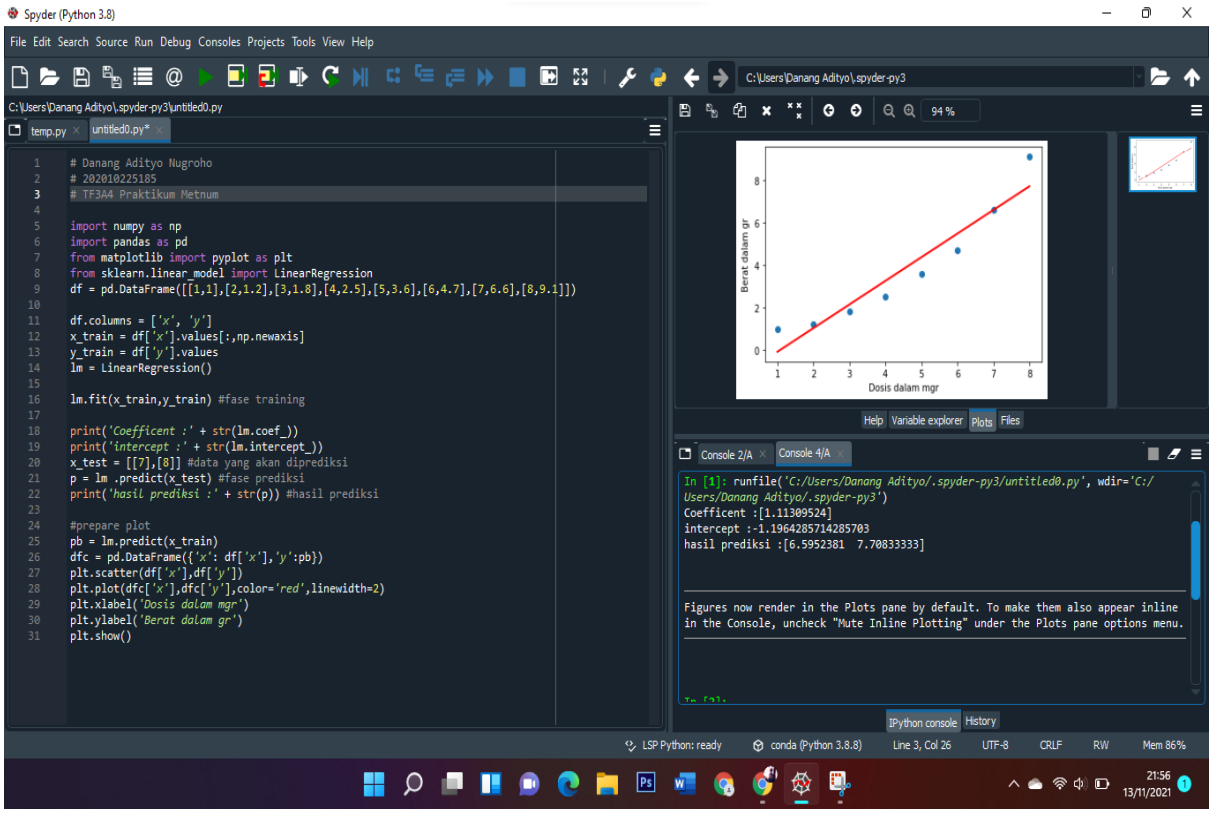
Tugas praktikum3

Metnum

- **Lagrange.py**



➢ Regresi.py


Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Danang Adityo\.spyder-py3\untitled0.py
temp.py
untitled0.py*
# Danang Adityo Nugroho
# 202010225185
# TF3A4 Praktikum Metnum
import numpy as np
import pandas as pd
from matplotlib import pyplot as plt
from sklearn.linear_model import LinearRegression
df = pd.DataFrame([[1,1],[2,1.2],[3,1.8],[4,2.5],[5,3.6],[6,4.7],[7,6.6],[8,9.1]])
df.columns = ['x', 'y']
x_train = df['x'].values[:,np.newaxis]
y_train = df['y'].values
lm = LinearRegression()
lm.fit(x_train,y_train) #fase training
print('Coefficent :' + str(lm.coef_))
print('intercept :' + str(lm.intercept_))
x_test = [[7],[8]] #data yang akan diprediksi
p = lm .predict(x_test) #fase prediksi
print('hasil prediksi :' + str(p)) #hasil prediksi
#prepare plot
pb = lm.predict(x_train)
dfc = pd.DataFrame({'x': df['x'],'y':pb})
plt.scatter(df['x'],df['y'])
plt.plot(dfc['x'],dfc['y'],color='red',linewidth=2)
plt.xlabel('Dosis dalam mgr')
plt.ylabel('Berat dalam gr')
plt.show()
Berat dalam gr
Dosis dalam mgr
Help
Variable explorer
Plots
Files
Console 2/A
Console 4/A
In [1]: runfile('C:/Users/Danang Adityo/.spyder-py3/untitled0.py', wdir='C:/Users/Danang Adityo/.spyder-py3')
Coefficent :[1.11309524]
intercept :-1.1964285714285703
hasil prediksi :[6.5952381 7.70833333]
Figures now render in the Plots pane by default. To make them also appear inline in the Console, uncheck "Mute Inline Plotting" under the Plots pane options menu.
IPython console
History
LSP Python: ready
conda (Python 3.8.8)
Line 3, Col 26
UTF-8
CRLF
RW
Mem 86%
21:56
13/11/2021