

YAYASAN SASMITA JAYA

**UNIVERSITAS PAMULANG**

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**Tangerang – Banten**

**UJIAN TENGAH SEMESTER**

**TAHUN AKADEMIK 2020-2021**

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| Nama Mahasiswa : Yoni Santoso  NIM : 171011402025  Semester : 07 TPLE 007  Program Studi : Teknik Informatika | Mata Kuliah : Kecerdasan Buatan  Nama Dosen : Agung Perdananto S.Kom M.Kom  Hari/Tgl : Selasa, 12 Januari 2021  Kelas : Reguler C |

Berikut saya lampirkan Jawaban UAS dalam betuk :

* Link : https://github.com/YoniSant/Yoni-Santoso-171011402035-07TPLE007.git
* Source Code
* Screen Shoot Output

Dan saya lampirkan pula :

* Bukti pembayaran
* Kartu UAS

**SOURCE CODE :**

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| --- |
| #!/usr/bin/env python |
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| --- |
| # coding: utf-8 |
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| # In[95]: |
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| # Yoni Santoso |
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| # 171011402035 |
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| # 07 TPLE 007 |
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| # UAS Kecerdasan Buatan |
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| import pandas as pd |
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| import numpy as np |
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| import seaborn as sns |
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| --- |
| get\_ipython().run\_line\_magic('matplotlib', 'inline') |
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| --- |
| import matplotlib.pyplot as plt |
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| --- |
| import math |
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| --- |
| import sklearn |
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| #Menampilkan Hours dan Scores |
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| --- |
| general\_data= pd.read\_csv("student scores.csv") |
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| general\_data.head(26) |
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| # In[53]: |
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| general\_data.shape |
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| # In[92]: |
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| #Menampilkan Jumlah Data |
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| --- |
| print("#JUMLAH DATASET SAYA =" +str(len(general\_data.index))) |
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| # In[91]: |
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| #Menampilkan Deskriptif Analisis |
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| general\_data.describe() |
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| # In[90]: |
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| #visualisasi hasil plot hours vs scores |
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| --- |
| general\_data.plot(x='Hours', y='Scores', style='o') |
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| --- |
| plt.title('Hours vs Scores') |
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| --- |
| plt.xlabel('Hours Studied') |
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| --- |
| plt.ylabel('Percentage Score') |
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| plt.show() |
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| # In[57]: |
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| x = general\_data.iloc[:, :-1].values |
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| --- |
| y = general\_data.iloc[:, :1].values |
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| # In[58]: |
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| from sklearn.model\_selection import train\_test\_split |
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| --- |
| x\_train, x\_test, y\_train, y\_test = train\_test\_split(x, y, test\_size=0.2, random\_state=0) |
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| # In[80]: |
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| --- |
| from sklearn.linear\_model import LinearRegression |
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| linreg = LinearRegression() |
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| linreg.fit(x\_train, y\_train) |
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| # In[61]: |
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| print(regressor.intercept\_) |
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| # In[62]: |
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| print(regressor.coef\_) |
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| # In[64]: |
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| --- |
| y\_pred = regressor.predict(x\_test) |
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| # In[89]: |
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| #visualisasi hours vs scores |
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| sns.pairplot(general\_data) |
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| # In[88]: |
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| #visualisasi hasil training set |
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| plt.scatter(x\_train, y\_train, color = 'red') |
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| plt.plot(x\_train, regressor.predict(x\_train), color = 'blue') |
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| --- |
| plt.title('Hours vs Scores') |
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| --- |
| plt.xlabel('Hours studied') |
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| --- |
| plt.ylabel('Percentage Score') |
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| plt.show() |
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| # In[87]: |
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| #visualisasi hasil test set |
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| --- |
| plt.scatter(x\_test, y\_test, color = 'red') |
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| --- |
| plt.plot(x\_train, regressor.predict(x\_train), color = 'blue') |
|  |

|  |
| --- |
| plt.title('Hours vs Scores') |
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| --- |
| plt.xlabel('Hours studied') |
|  |

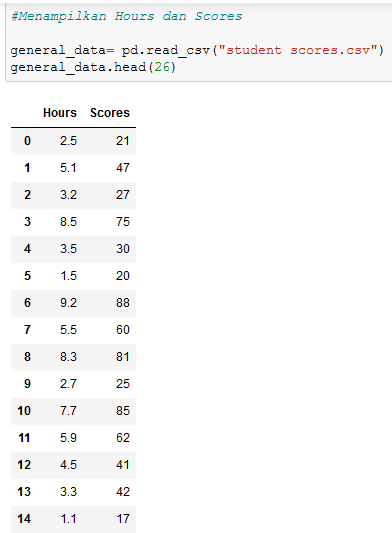
|  |
| --- |
| plt.ylabel('Percentage Score') |
|  |

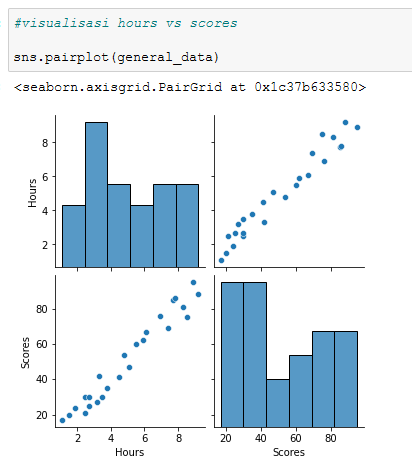
|  |
| --- |
| plt.show() |
|  |

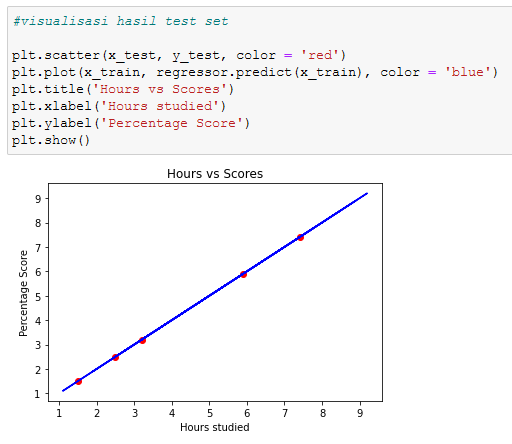
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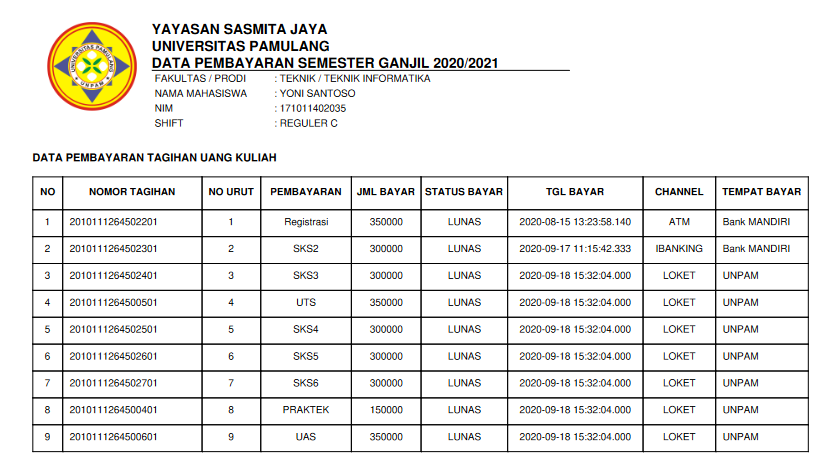
**Screen Shoot Output :**







**Bukti Pembayaran :**



**Kartu Ujian Akhir Semester :**

