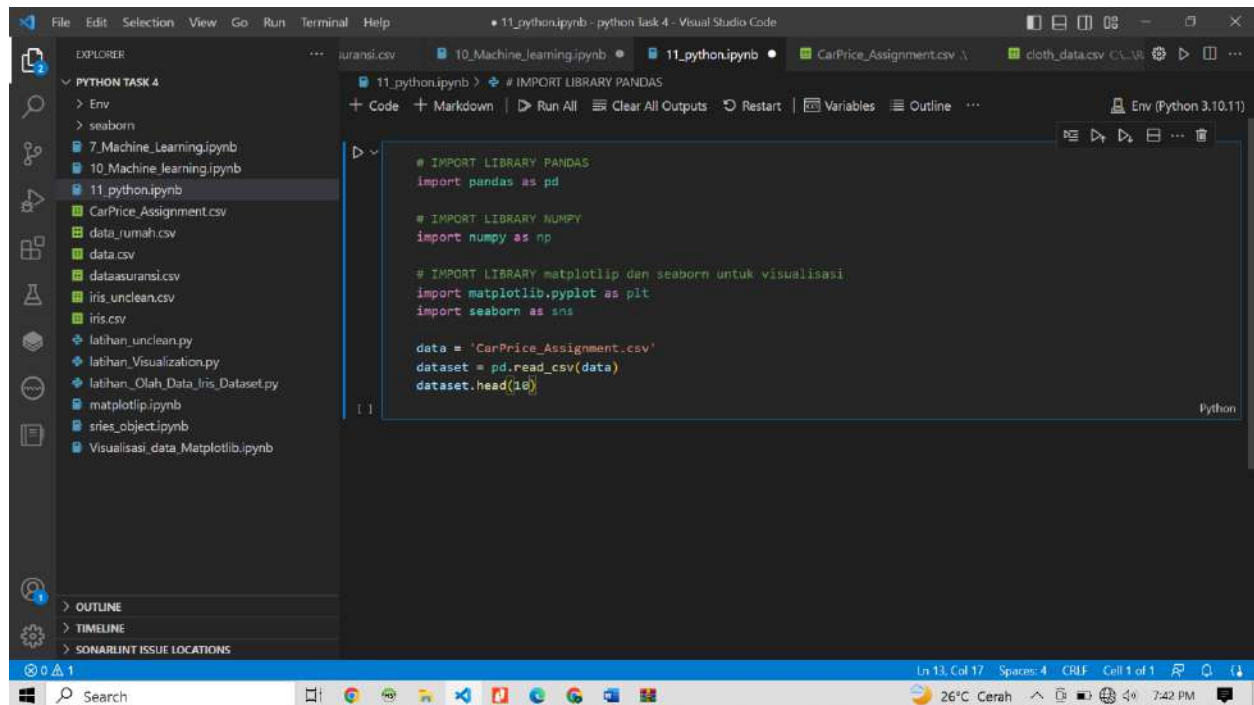


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Kelas : C
Mata Kuliah : Perograman Python

Task 7

9-Machine Learning _Regresi linear Car Price

1. Import Library dan Cek Dataset



```
11_python.ipynb > # IMPORT LIBRARY PANDAS
+ Code + Markdown | ▶ Run All | Clear All Outputs | Restart | Variables | Outline | ...
Env (Python 3.10.11)

# IMPORT LIBRARY PANDAS
import pandas as pd

# IMPORT LIBRARY NUMPY
import numpy as np

# IMPORT LIBRARY matplotlib dan seaborn untuk visualisasi
import matplotlib.pyplot as plt
import seaborn as sns

data = 'CarPrice_Assignment.csv'
dataset = pd.read_csv(data)
dataset.head(10)
```

The screenshot shows a Visual Studio Code window with a Jupyter Notebook. The code in the cell is:

```
# IMPORT LIBRARY PANDAS
data = 'CarPrice_Assignment.csv'
dataset = pd.read_csv(data)
dataset.head(10)
```

The output of the code is a table with 10 rows and 11 columns. The columns are: car_ID, symboling, CarName, fueltype, aspiration, doornumber, carbody, drivewheel, enginelocation, and wheelbase. The data shows various car models and their specifications.

car_ID	symboling	CarName	fueltype	aspiration	doornumber	carbody	drivewheel	enginelocation	wheelbase
0	1	3 alfa-romero giulia	gas	std	two	convertible	rwd	front	88.6
1	2	3 alfa-romero stelvio	gas	std	two	convertible	rwd	front	88.6
2	3	1 alfa-romero Quadrifoglio	gas	std	two	hatchback	rwd	front	94.5
3	4	2 audi 100 ls	gas	std	four	sedan	fwd	front	99.8
4	5	2 audi 100ls	gas	std	four	sedan	4wd	front	99.4
5	6	2 audi fox	gas	std	two	sedan	fwd	front	99.8
6	7	1 audi 100ls	gas	std	four	sedan	fwd	front	105.8
7	8	1 audi 5000	gas	std	four	wagon	fwd	front	105.8
8	9	1 audi 4000	gas	turbo	four	sedan	fwd	front	105.8
9	10	0 audi 5000s (diesel)	gas	turbo	two	hatchback	4wd	front	99.5

dataset.info

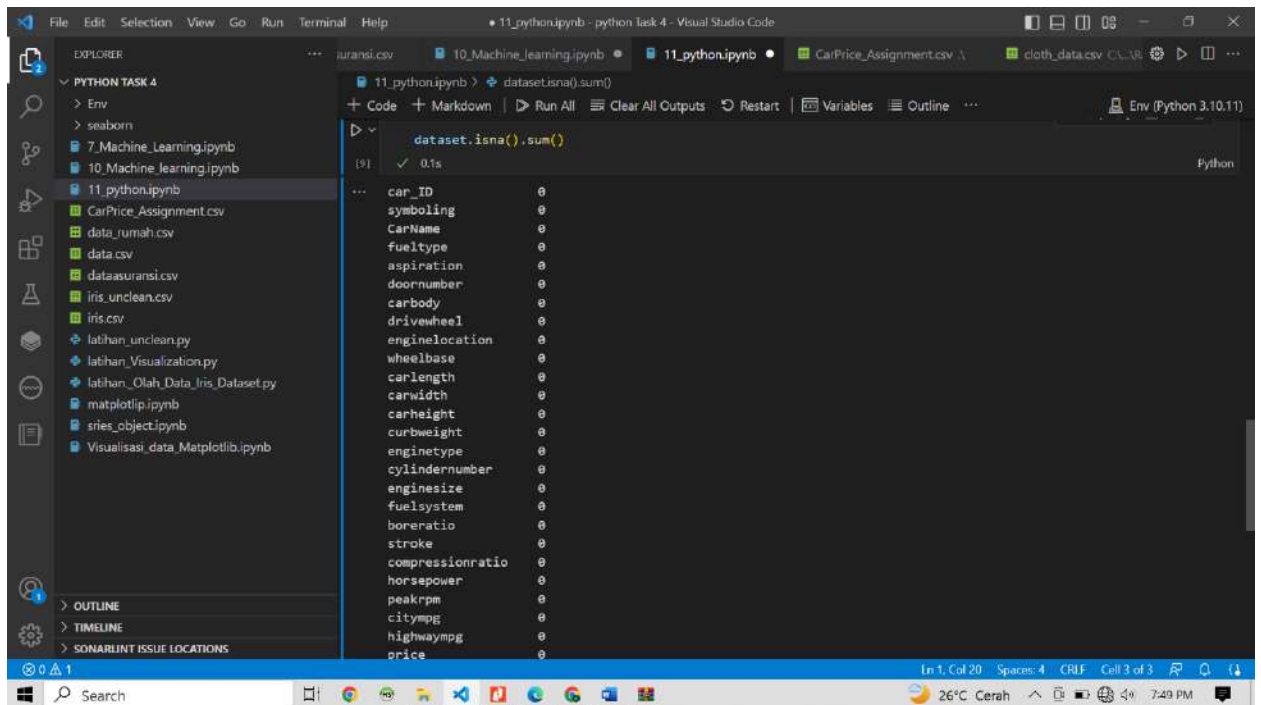
The screenshot shows a Visual Studio Code window with a Jupyter Notebook. The code in the cell is:

```
dataset.info()
```

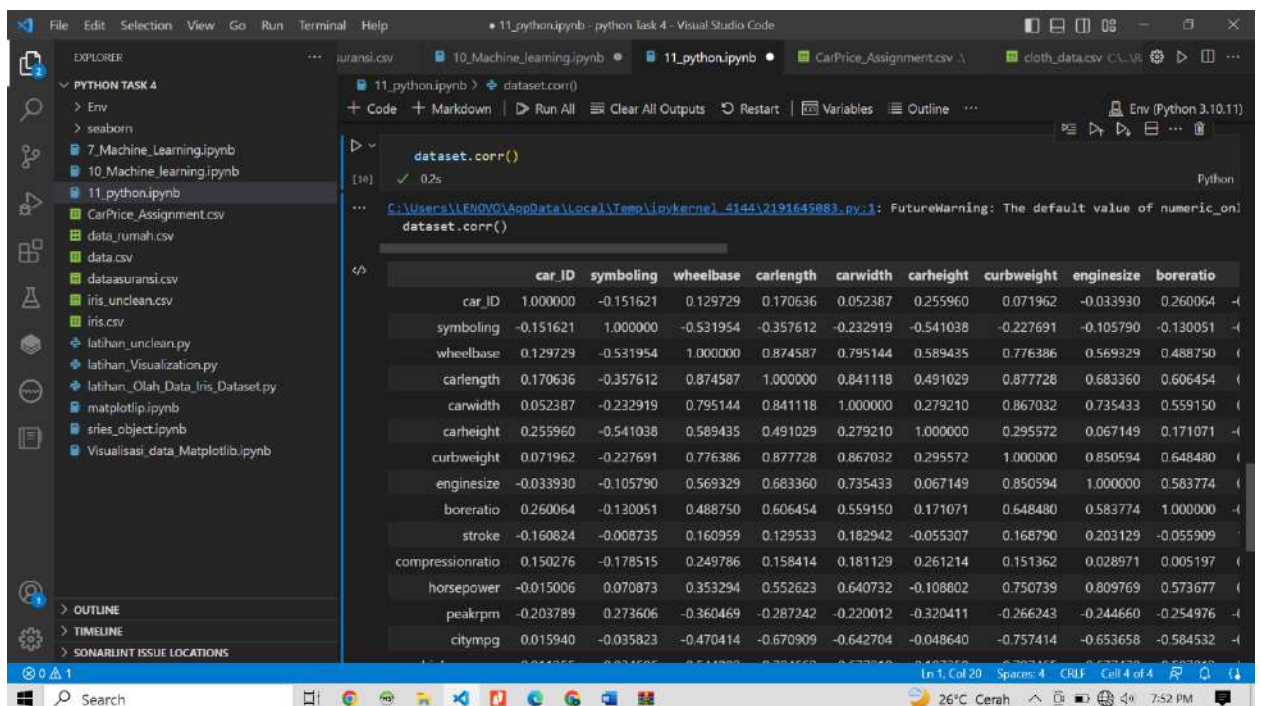
The output of the code is a summary of the dataset, including the number of entries, the number of columns, and the data types of each column.

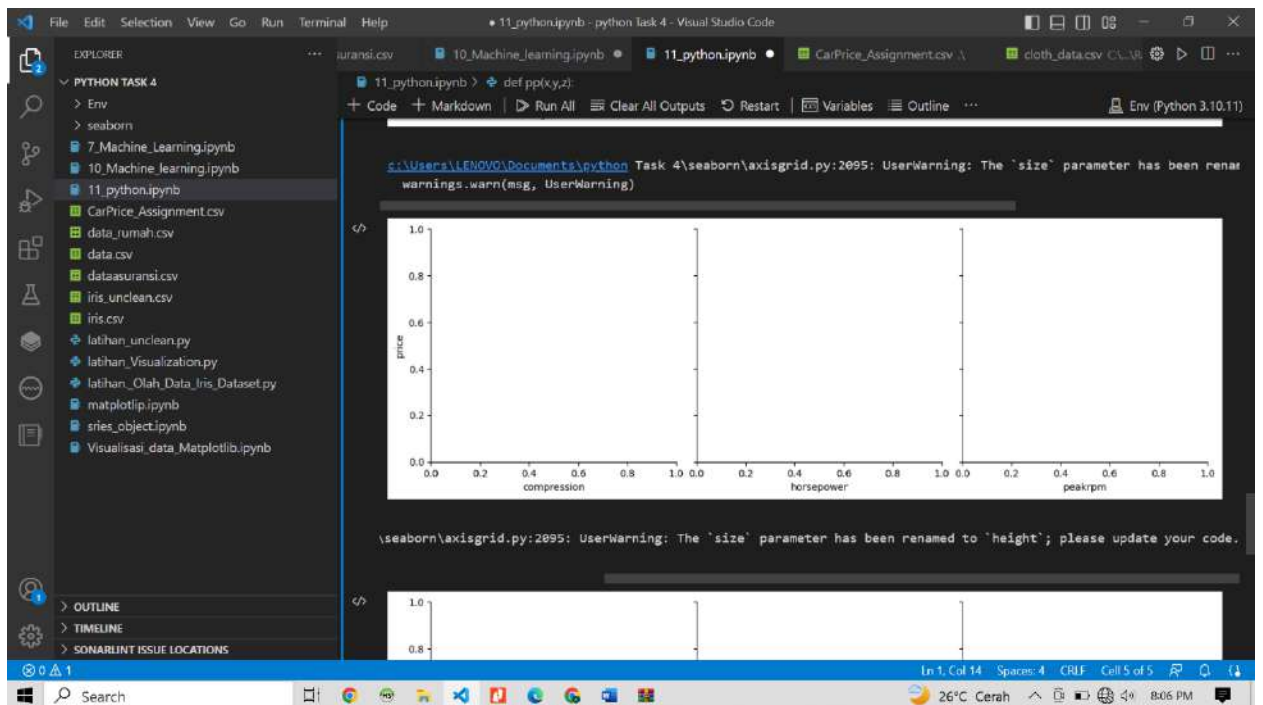
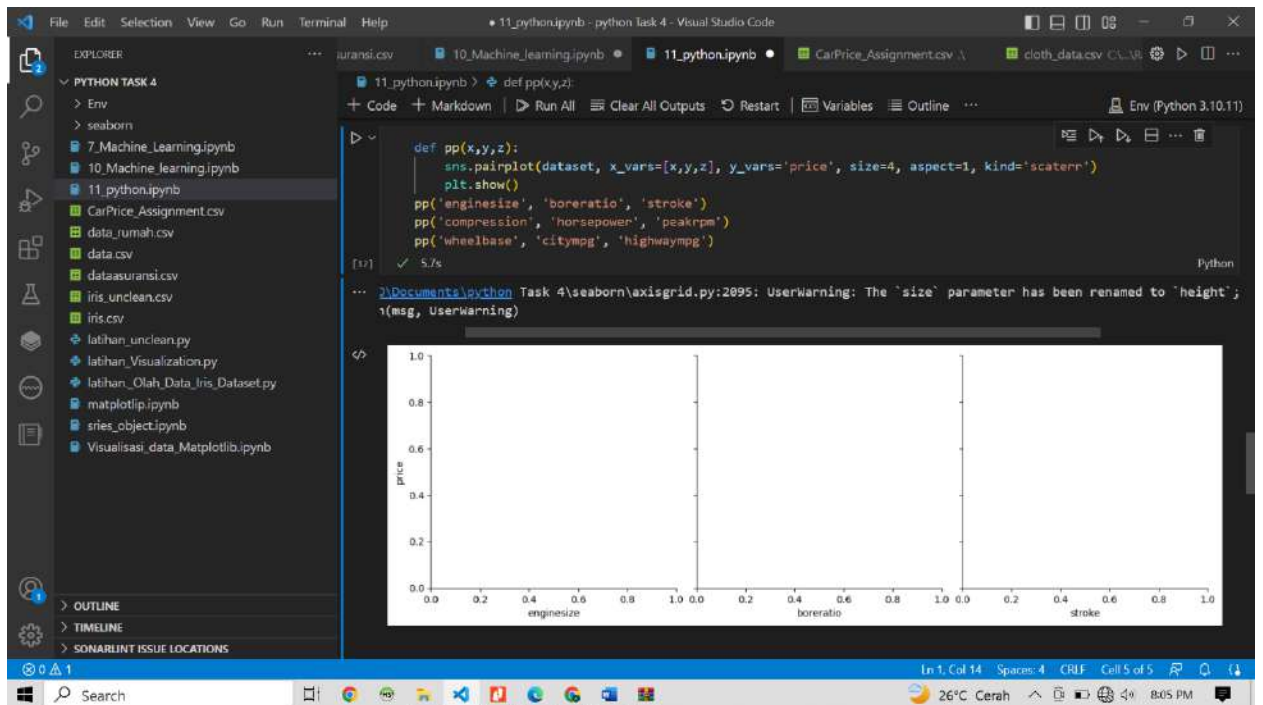
```
Output exceeds the size limit. Open the full output data in a text editor
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 205 entries, 0 to 204
Data columns (total 26 columns):
# Column Non-Null Count Dtype
---
0 car_ID 205 non-null int64
1 symboling 205 non-null int64
2 CarName 205 non-null object
3 fueltype 205 non-null object
4 aspiration 205 non-null object
5 doornumber 205 non-null object
6 carbody 205 non-null object
7 drivewheel 205 non-null object
8 enginelocation 205 non-null object
9 wheelbase 205 non-null float64
10 carlength 205 non-null float64
11 carwidth 205 non-null float64
12 carheight 205 non-null float64
13 curbweight 205 non-null int64
14 enginetype 205 non-null object
15 cylindernumber 205 non-null object
16 enginesize 205 non-null int64
17 fuelsystem 205 non-null object
18 boreratio 205 non-null float64
19 stroke 205 non-null float64
```

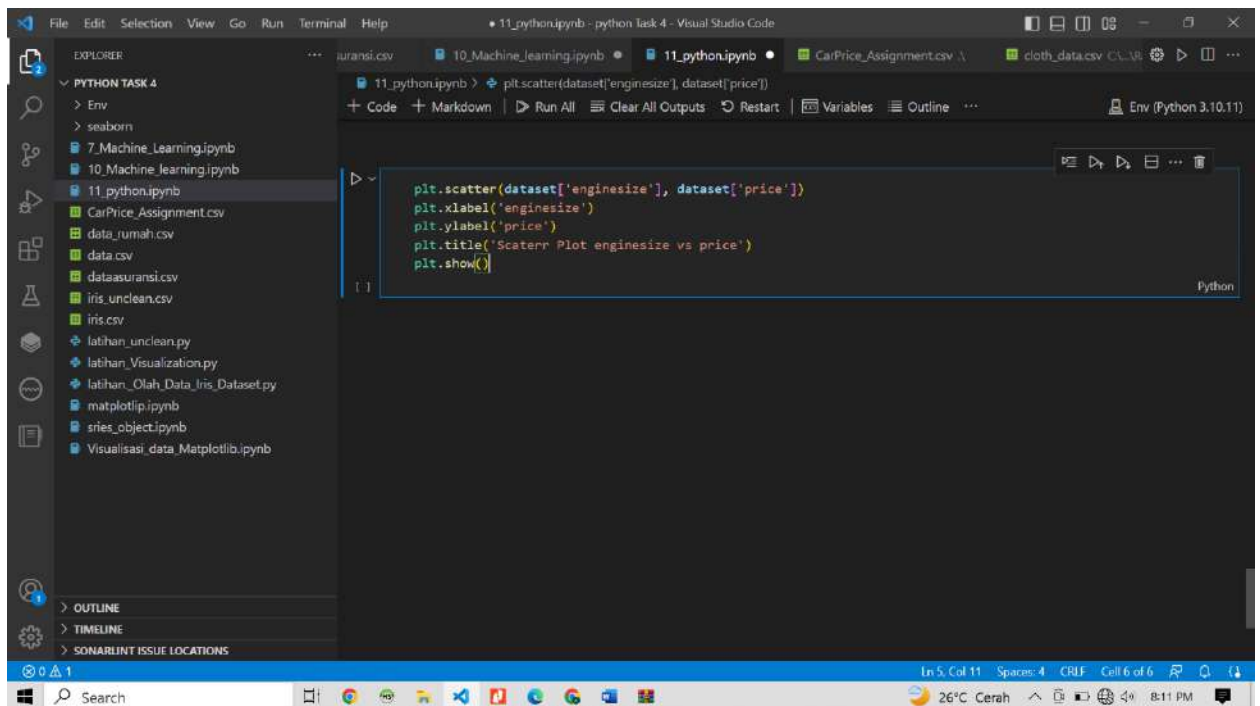
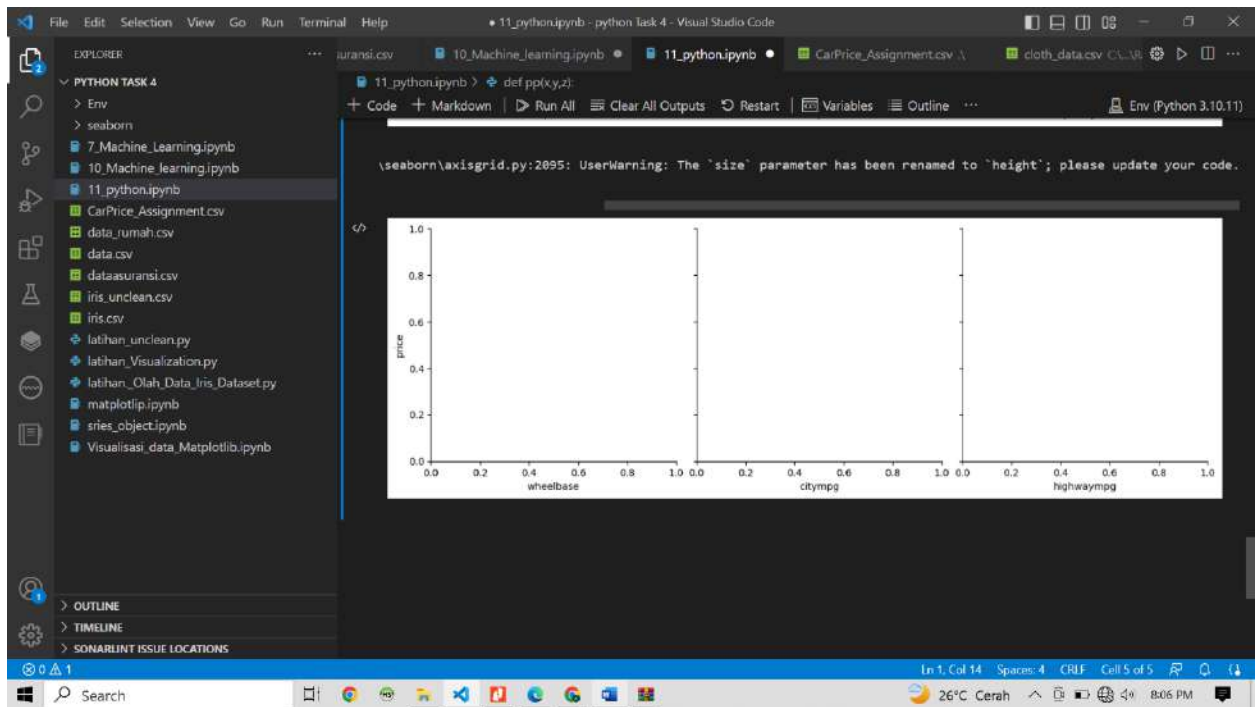
dataset.isna().sum()

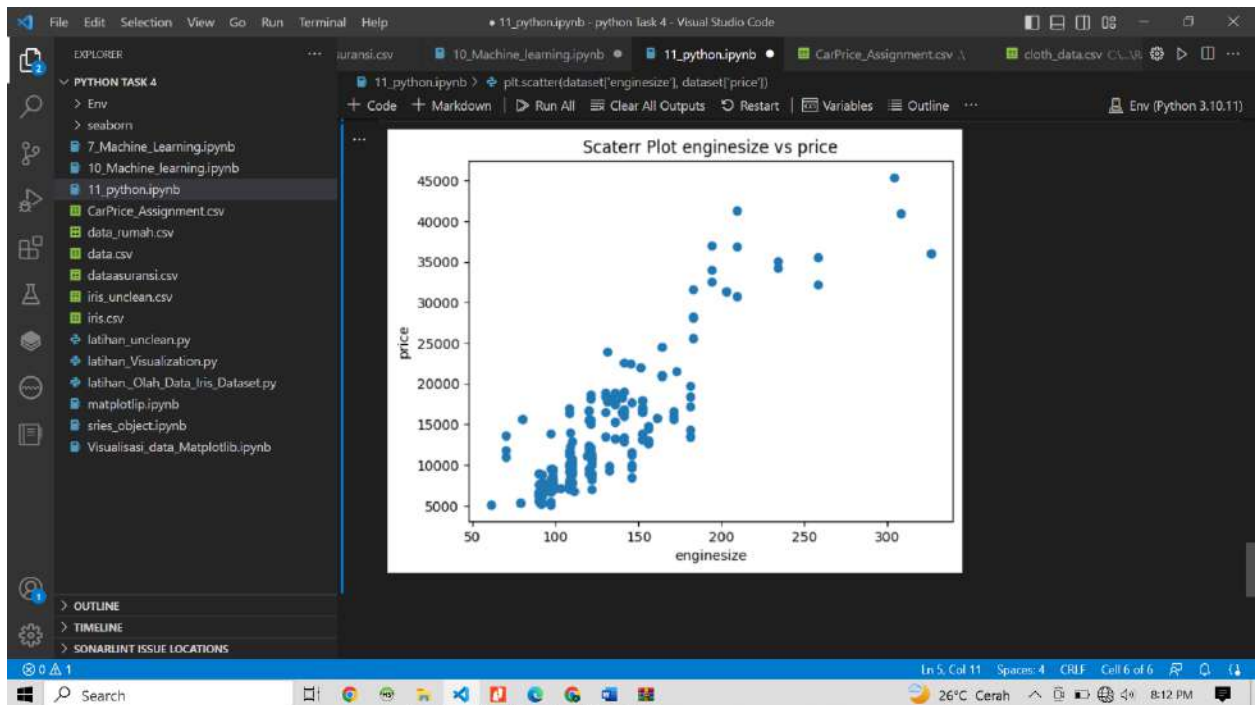


2. Cek Kolerasi









10-Machine Learning_Prediksi Pembeli Asuransi dengan Regresi Logistik

Machine Learning : Prediksi Pembelian Asuransi dengan Regresi Logistik

Visual Studio Code interface showing a Jupyter Notebook file named `10_Machine_Learning.ipynb`. The Explorer sidebar on the left lists files under "PYTHON TASK 4", including `data_rumah.csv`, `data.csv`, `dataasuransi.csv`, `iris_unclean.csv`, `iris.csv`, `latihan_unclean.py`, `latihan_Visualization.py`, `latihan_Olah_Data_Iris_Dataset.py`, `matplotlib.ipynb`, `series_object.ipynb`, and `Visualisasi_data_Matplotlib.ipynb`.

The main editor displays the following Python code:

```
# IMPORT LIBRARY
import pandas as pd
from matplotlib import pyplot as plt
from matplotlib import pyplot as plt

# READ CSV
df = pd.read_csv("dataasuransi.csv")

# TAMPIL DATAFRAME
df.head(5)
```

The output of the code is displayed below the cell:

```
[4] ✓ 0.2s
```

	umur	membeli	asuransi
0	22	0	0
1	25	0	0
2	47	1	1
3	52	0	0
4	46	1	1

The status bar at the bottom indicates the current position is Line 10, Column 10, with 4 spaces and a CR/LF line ending. The system tray shows a temperature of 29°C, a clear sky icon, and the time 3:40 PM.

Visual Studio Code interface showing the same Jupyter Notebook file `10_Machine_Learning.ipynb`. The Explorer sidebar remains the same.

The main editor displays the following Python code:

```
# TAMPIL KE DALAM PLOT
sb.regplot(x='umur', y='membeli_asuransi', data=df, logistic=True, color='red')
```

The output of the code is displayed below the cell:

```
[ ]
```

The status bar at the bottom indicates the current position is Cell 2 of 2. The system tray shows a temperature of 29°C, a clear sky icon, and the time 7:10 PM.

