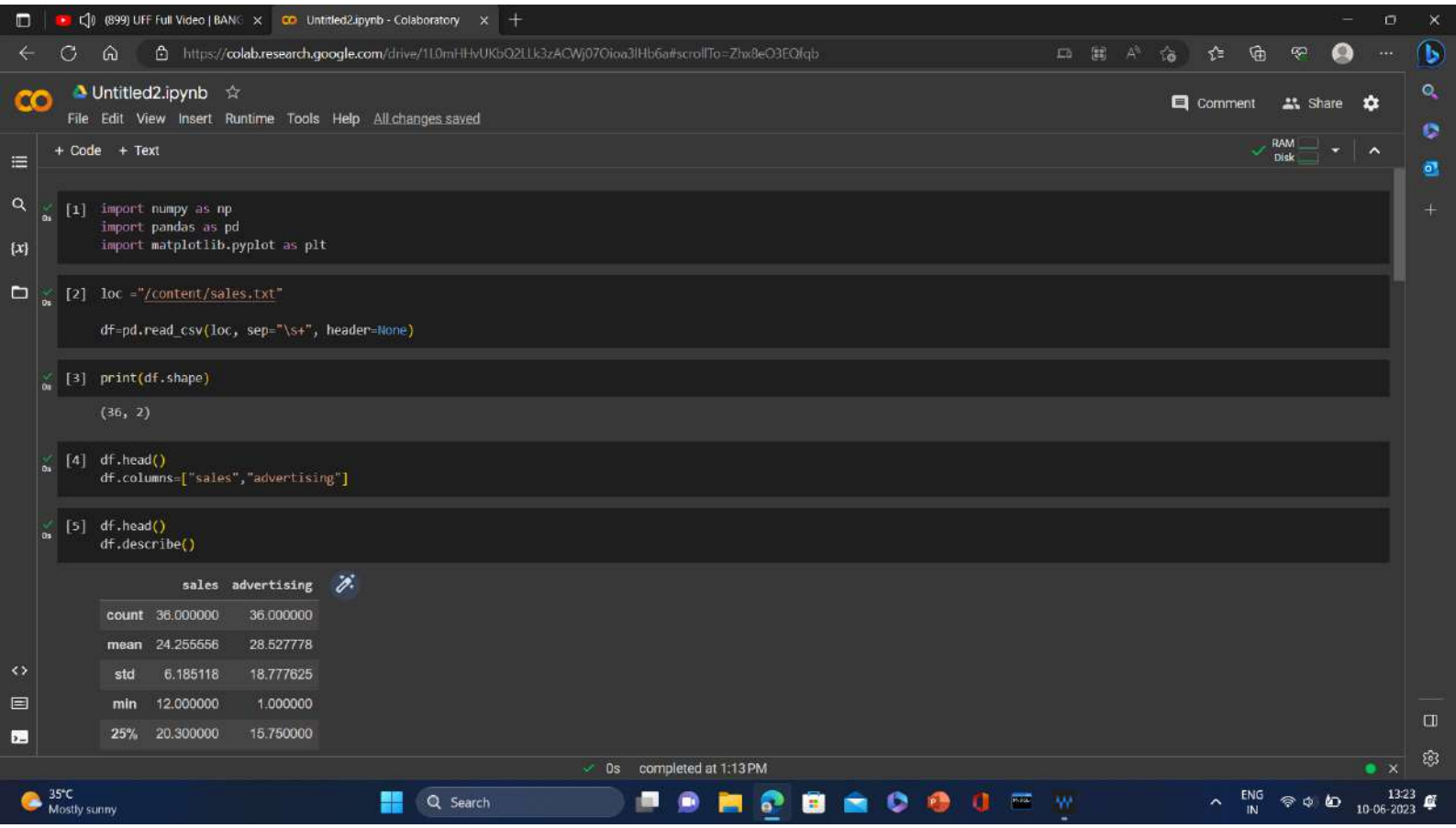

(899) UFF Full Video | BANK
Untitled2.ipynb - Colaboratory
https://colab.research.google.com/drive/1L0mHHvUKbQ2LLk3zACWj07Oioa3IHb6a#scrollTo=Zhx8eO3EQfqb
Untitled2.ipynb
File Edit View Insert Runtime Tools Help All changes saved
Comment
Share
+ Code + Text
RAM
Disk
[1] import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
[2] loc ="/content/sales.txt"
df=pd.read_csv(loc, sep="\s+", header=None)
[3] print(df.shape)
(36, 2)
[4] df.head()
df.columns=["sales","advertising"]
[5] df.head()
df.describe()
sales advertising
count 36.000000 36.000000
mean 24.255556 28.527778
std 6.185118 18.777625
min 12.000000 1.000000
25% 20.300000 15.750000
0s completed at 1:13 PM
35°C
Mostly sunny
Search
ENG
IN
13:23
10-06-2023

(899) UFF Full Video | BANK | Untitled2.ipynb - Colaboratory

https://colab.research.google.com/drive/1L0mHHvUKbQ2LLk3zACWj07Oioa3IHb6a#scrollTo=Zhx8eO3EQfqb

Untitled2.ipynb

File Edit View Insert Runtime Tools Help All changes saved

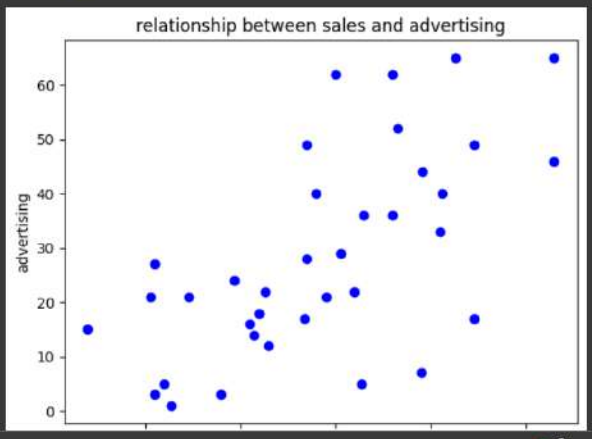
Comment Share

+ Code + Text

RAM Disk

```
[6] x=df["sales"].values
    y=df["advertising"].values
```

```
plt.scatter(x,y, color='blue',label='scatter plot')
plt.title("relationship between sales and advertising")
plt.xlabel("sales")
plt.ylabel("advertising")
plt.show()
```



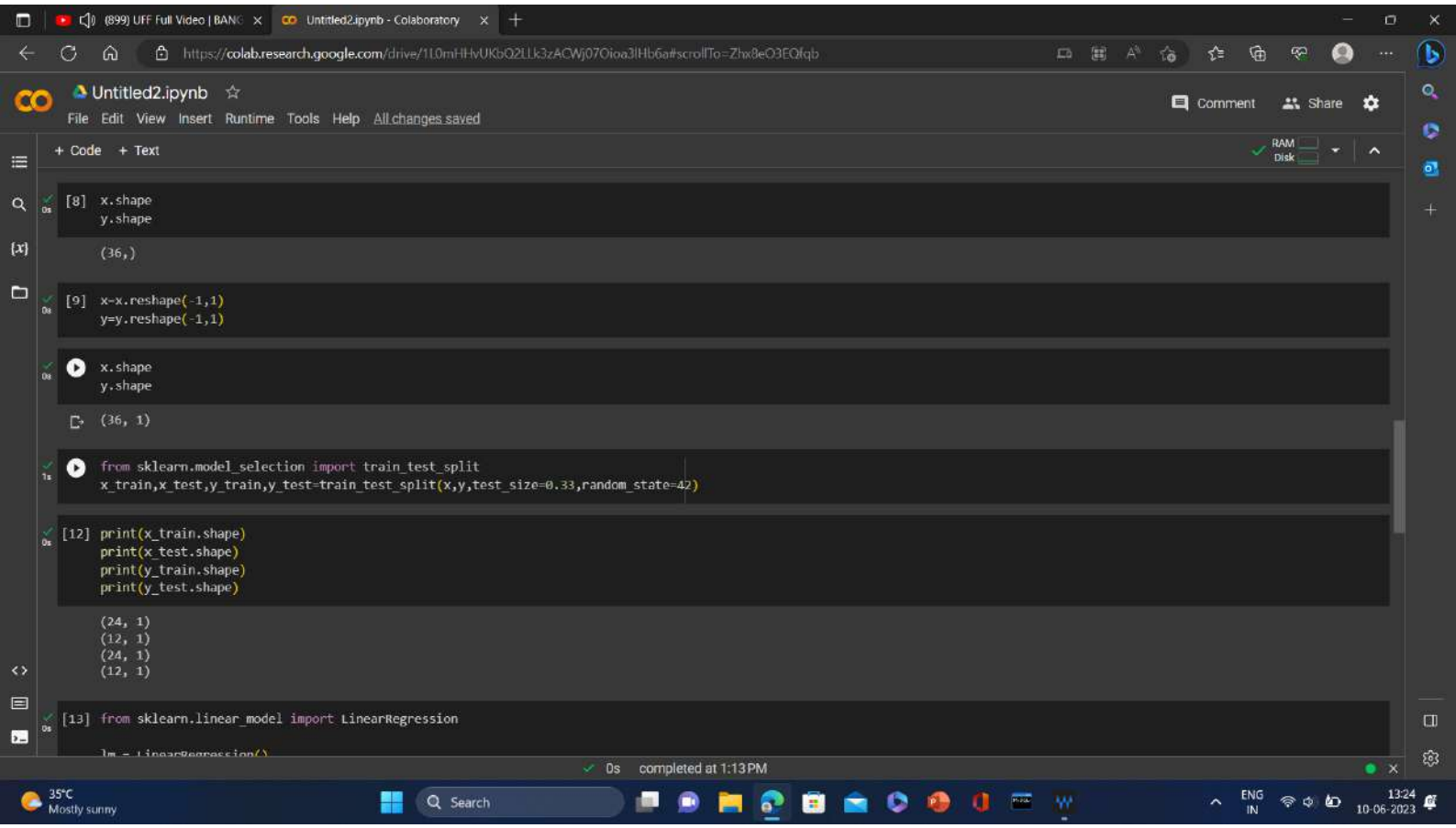
0s completed at 1:13 PM

35°C Mostly sunny

Search

ENG IN

13:24 10-06-2023


(899) UFF Full Video | BANK
Untitled2.ipynb - Colaboratory
https://colab.research.google.com/drive/1L0mHHvUKbQ2LLk3zACWj07Oioa3IHb6a#scrollTo=Zhx8eO3EQfqb
Untitled2.ipynb
File Edit View Insert Runtime Tools Help All changes saved
Comment
Share
+ Code + Text
RAM
Disk
[8] x.shape
y.shape
(36,)
[9] x=x.reshape(-1,1)
y=y.reshape(-1,1)
x.shape
y.shape
(36, 1)
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.33,random_state=42)
[12] print(x_train.shape)
print(x_test.shape)
print(y_train.shape)
print(y_test.shape)
(24, 1)
(12, 1)
(24, 1)
(12, 1)
[13] from sklearn.linear_model import LinearRegression
0s completed at 1:13 PM
35°C
Mostly sunny
Search
ENG
IN
13:24
10-06-2023

(899) UFF Full Video | BANK | Untitled2.ipynb - Colaboratory

https://colab.research.google.com/drive/1L0mHHvUKbQ2LLk3zACWj07Oioa3IHb6a#scrollTo=Zhx8eO3EQfqb

Untitled2.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Comment Share

+ Code + Text

RAM Disk

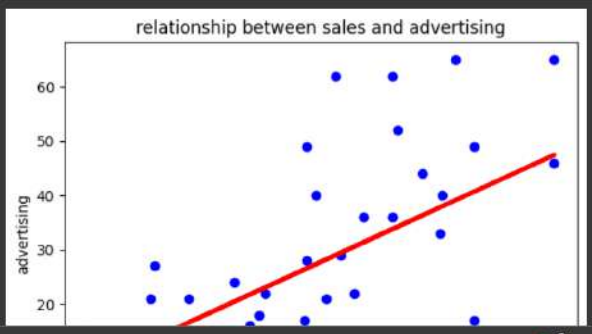
```
[13] from sklearn.linear_model import LinearRegression

     lm = LinearRegression()

     lm.fit(x_train,y_train)

     y_pred = lm.predict(x_test)
```

```
plt.scatter(x,y, color='blue',label='scatter plot')
plt.plot(x_test,y_pred, color='red', linewidth=3)
plt.title("relationship between sales and advertising")
plt.xlabel("sales")
plt.ylabel("advertising")
plt.show()
```



0s completed at 1:13 PM

35°C Mostly sunny

Search

ENG IN

13:24 10-06-2023

(899) Radhe Title Track | Ra... | Untitled2.ipynb - Colaboratory

https://colab.research.google.com/drive/1L0mHHvUKbQ2LLk3zACWj07Oioa3IHb6a#scrollTo=Zhx8eO3EQfqb

Untitled2.ipynb

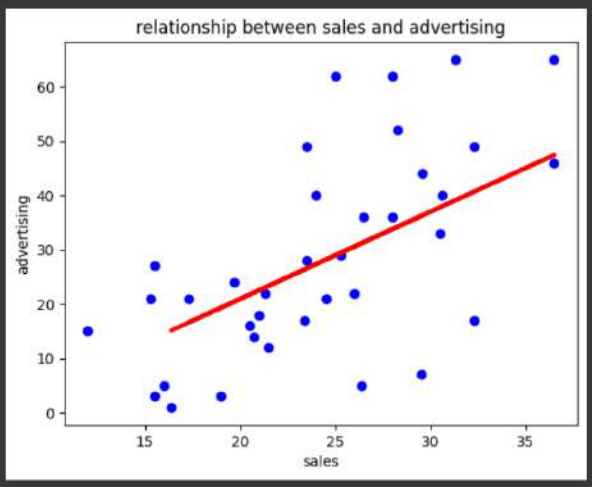
File Edit View Insert Runtime Tools Help All changes saved

Comment Share

+ Code + Text

RAM Disk

```
plt.scatter(x,y, color='blue',label='scatter plot')
plt.plot(x_test,y_pred, color='red', linewidth=3)
plt.title("relationship between sales and advertising")
plt.xlabel("sales")
plt.ylabel("advertising")
plt.show()
```



0s completed at 1:13 PM

35°C Mostly sunny

Search

ENG IN

13:24 10-06-2023