1. Train a simple linear regressing model on dataset and predict theoutput.

Train dataset :- https://docs.google.com/spreadsheets/d/e/2PACX-1vRTK2NvcndgPX41Czu6Ft2Ho_nE-z50BgTqdzwFW0rsJ2nvyNLe2DoIg1COzUbgw80oaRBjfy5-WtFk/pubhtml

import pandas as pd

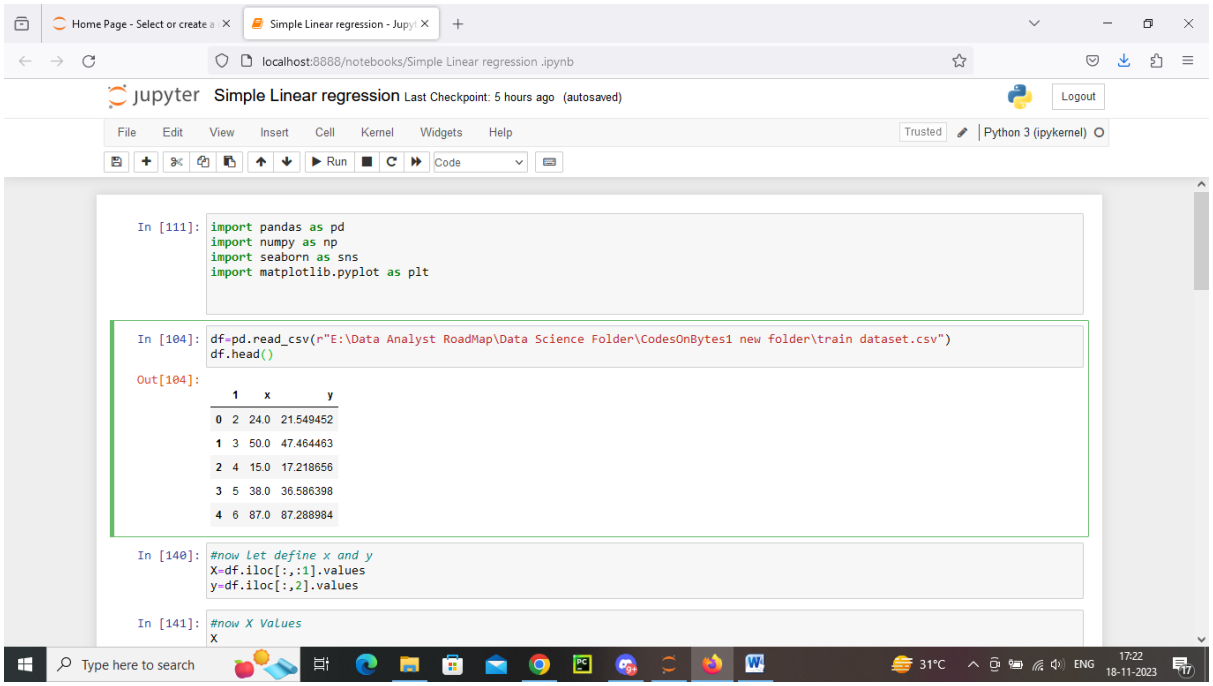
import numpy as np

import seaborn as sns

import matplotlib.pyplot as plt

df=pd.read_csv(r"E:\Data Analyst RoadMap\Data Science Folder\CodesOnBytes1 new folder\train dataset.csv")

df.head()



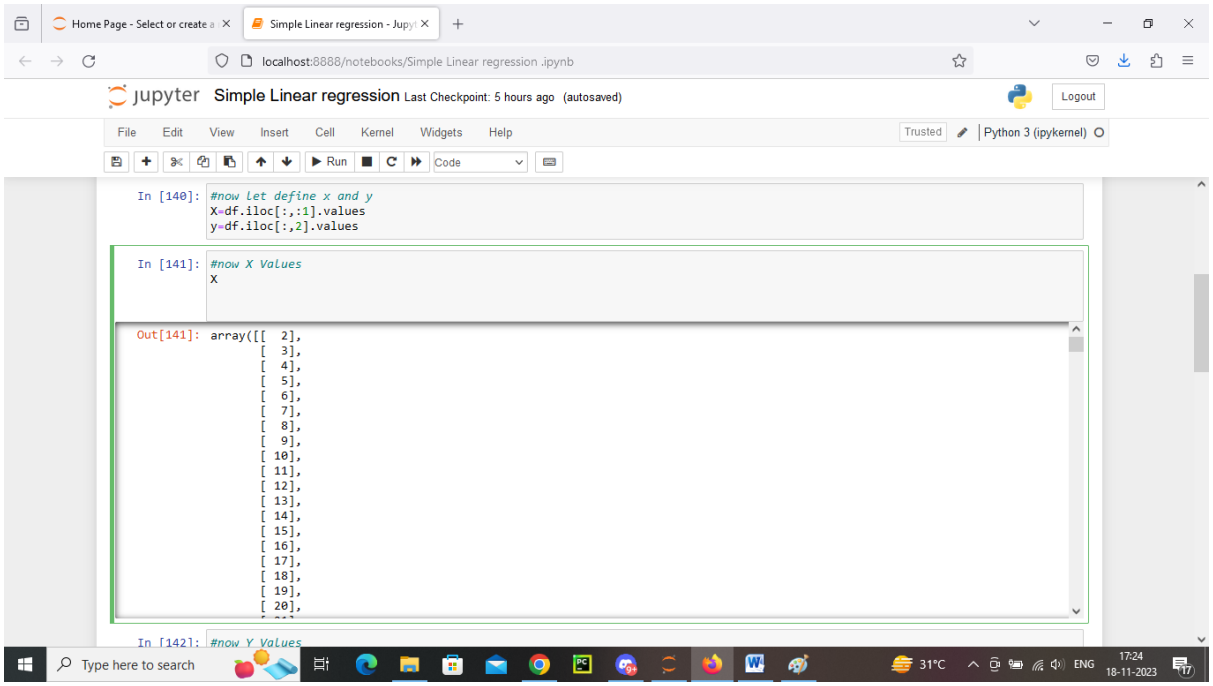
#now let define x and y

X=df.iloc[:,:1].values

y=df.iloc[:,2].values

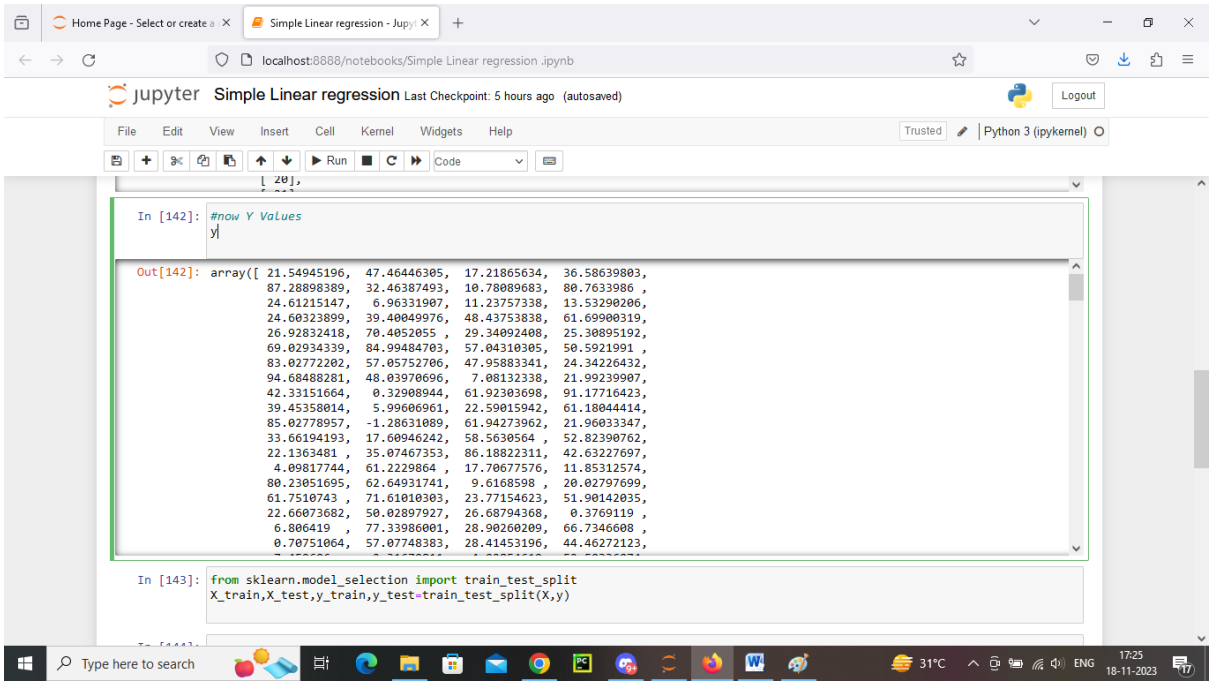
#now X Values

X



#now Y Values

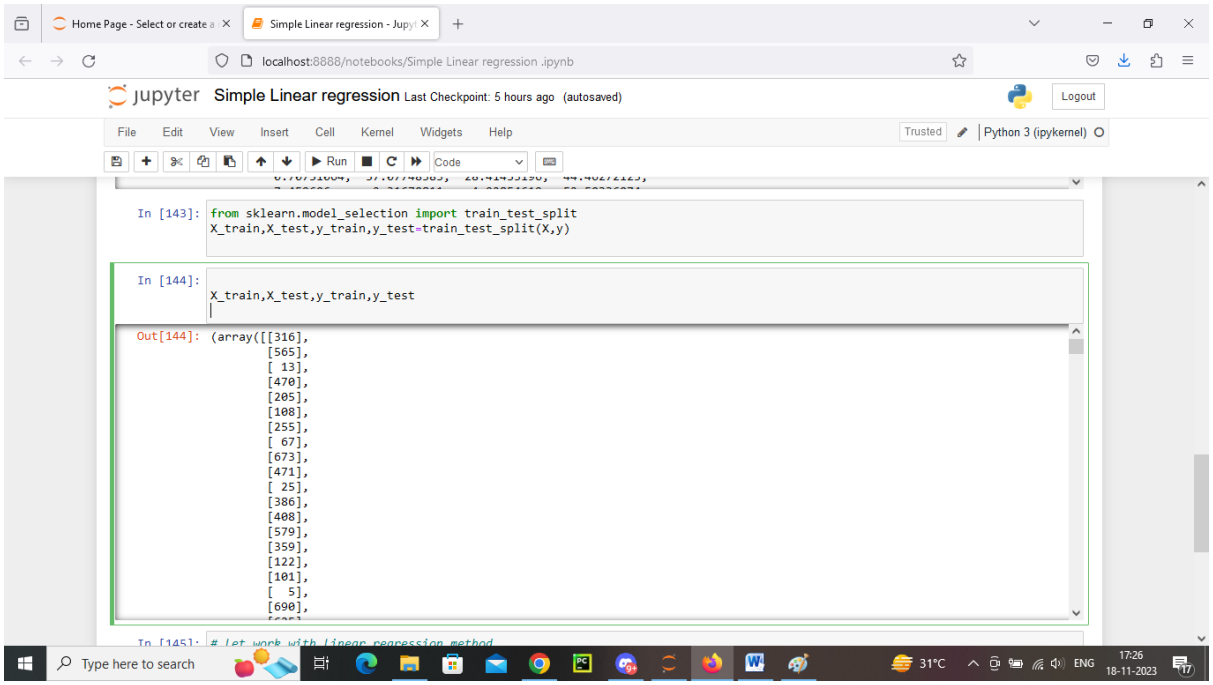
y



from sklearn.model_selection import train_test_split

X_train,X_test,y_train,y_test=train_test_split(X,y)

X_train,X_test,y_train,y_test

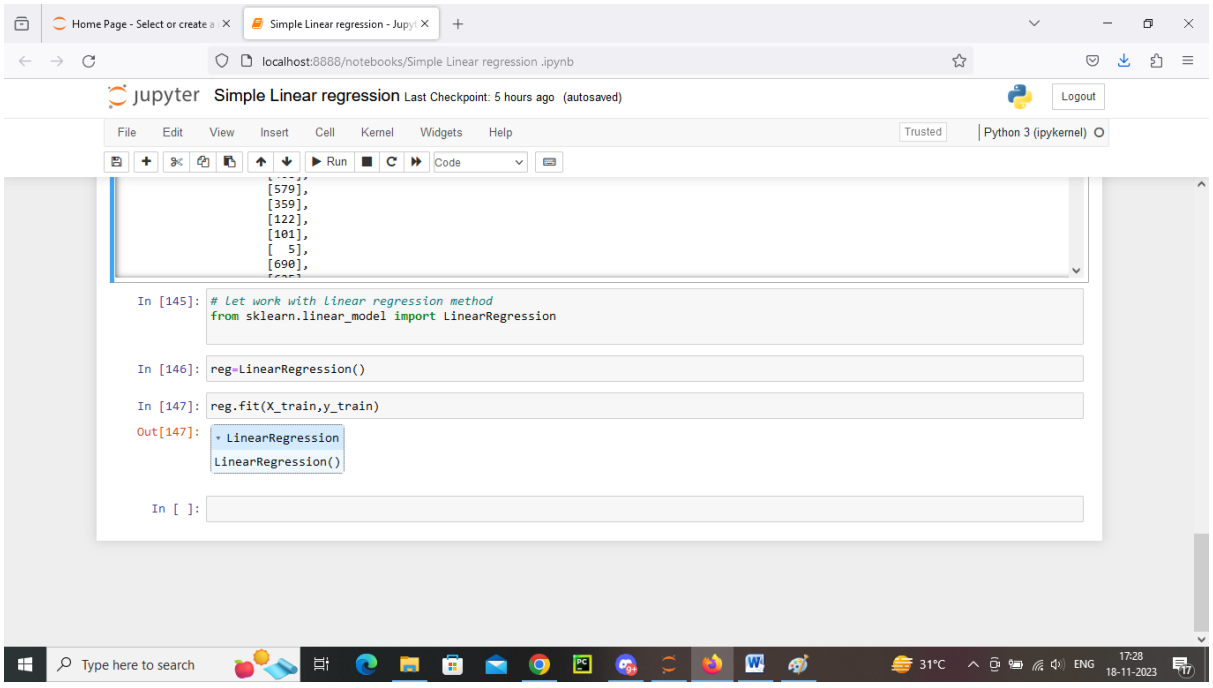


let work with linear regression method

from sklearn.linear_model import LinearRegression

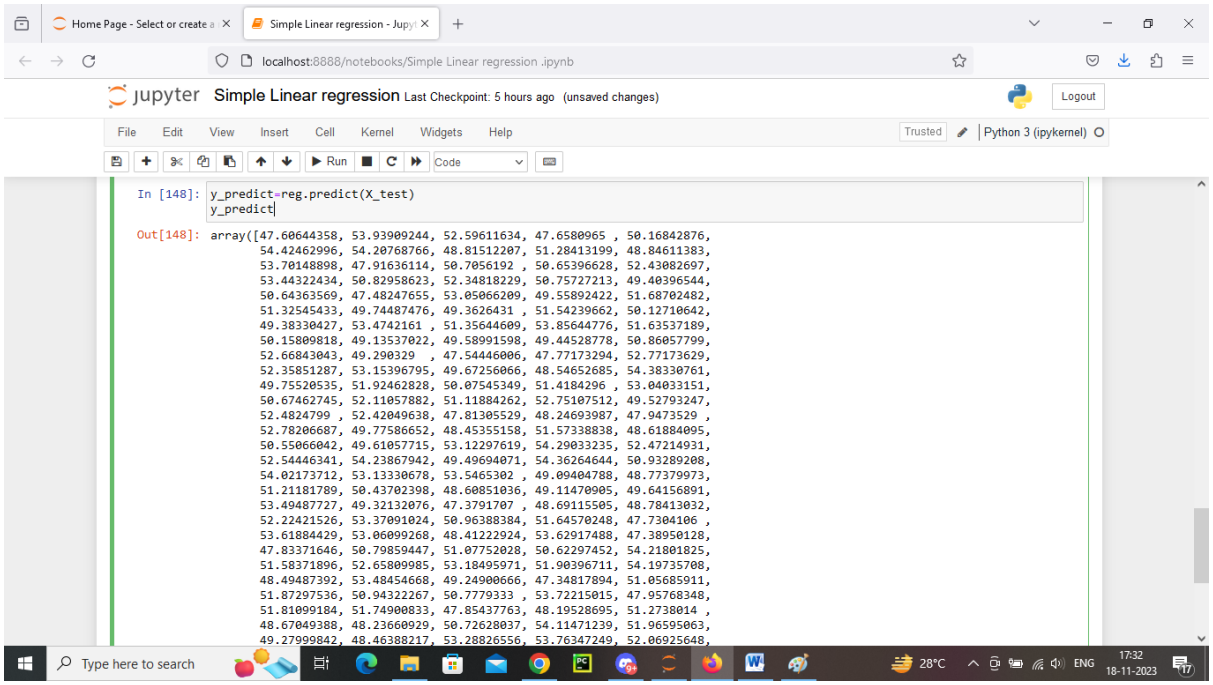
reg=LinearRegression()

reg.fit(X_train,y_train)



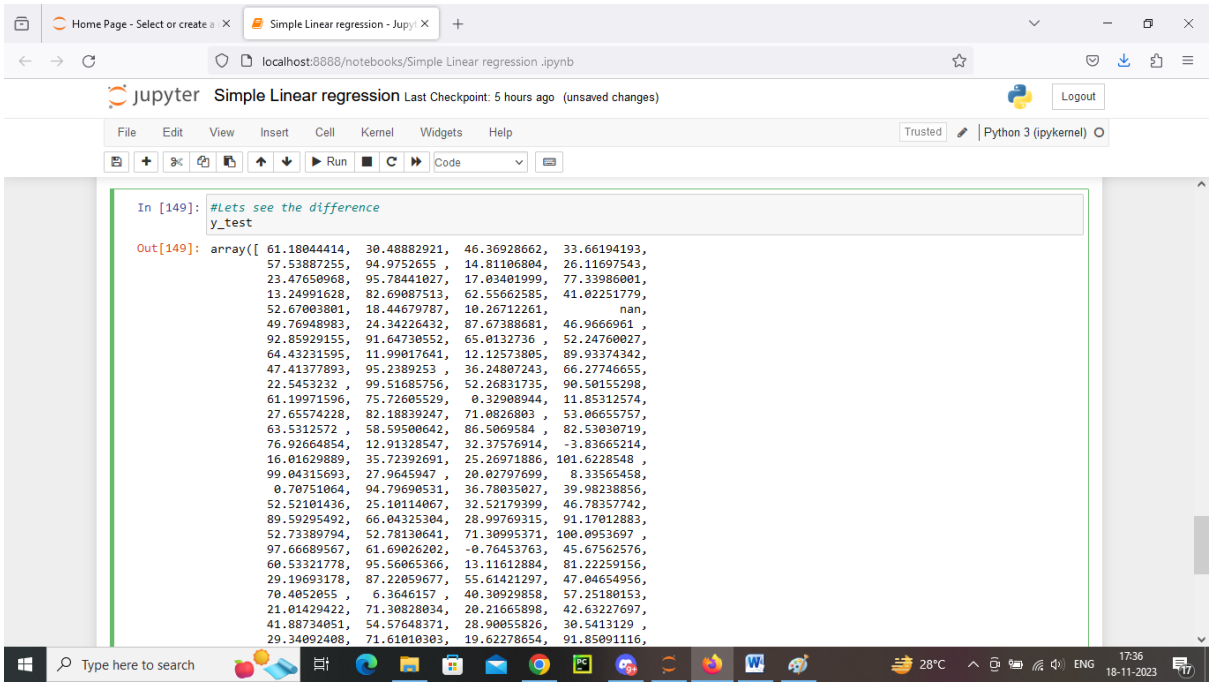
y_predict=reg.predict(X_test)

y_predict

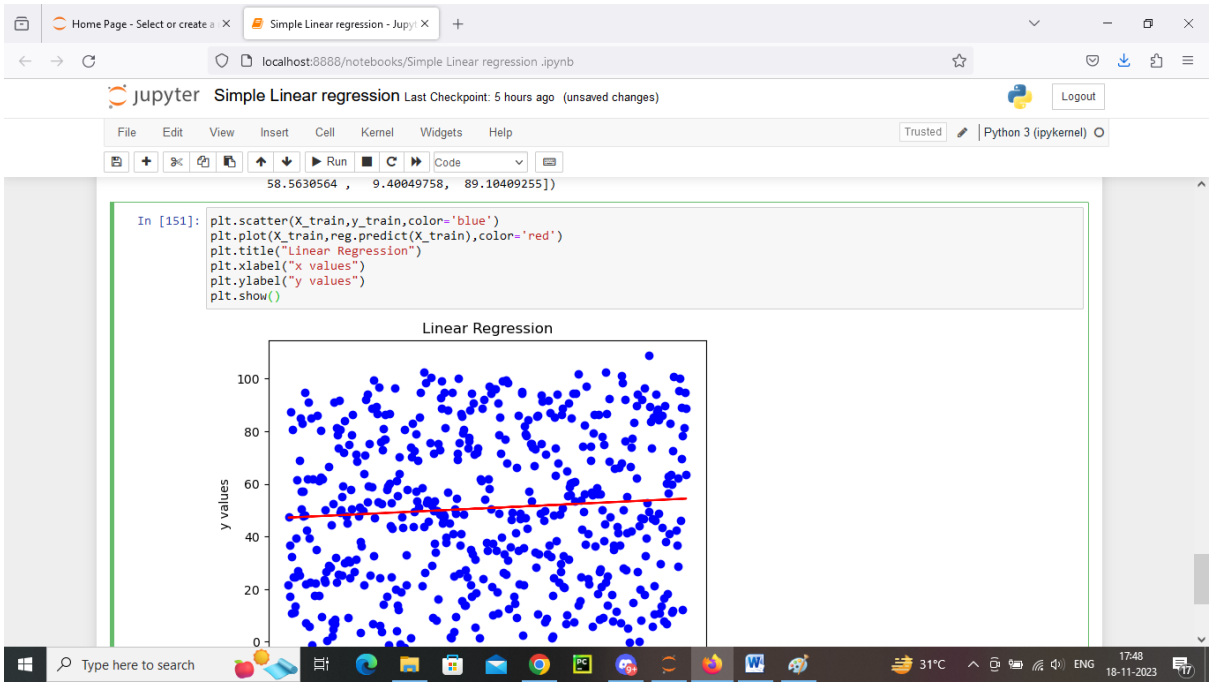


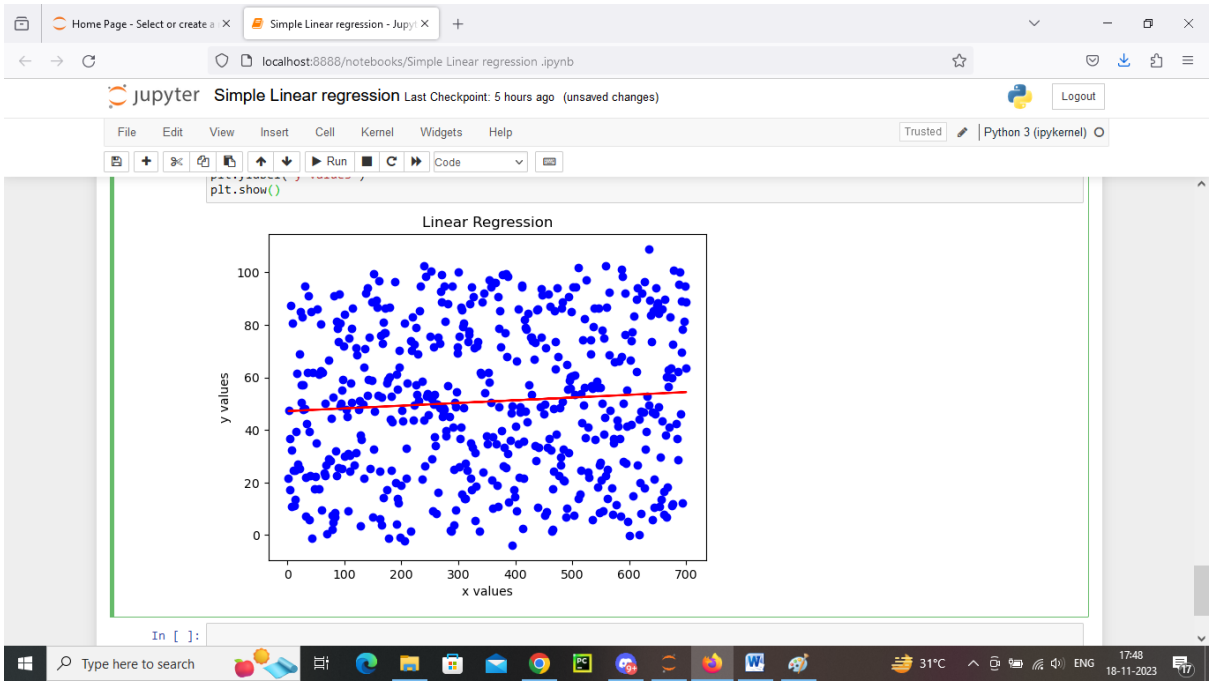
#Lets see the difference

y_test



```
plt.scatter(X_train,y_train,color='blue')

plt.plot(X_train,reg.predict(X_train),color='red')

plt.title("Linear Regression")

plt.xlabel("x values")

plt.ylabel("y values")

plt.show()
```





1. Train a simple linear regressing model on dataset and predict theoutput.

   Test dataset :- https://docs.google.com/spreadsheets/d/e/2PACX-1vRyvZ7lknwiSghK9aen1SaTEYoN3JS40rrGLpcyrsVZy1tB2T4gn6Y 3-cdzPUFCPMmmqREWefW3kl4_/pubhtml

import pandas as pd

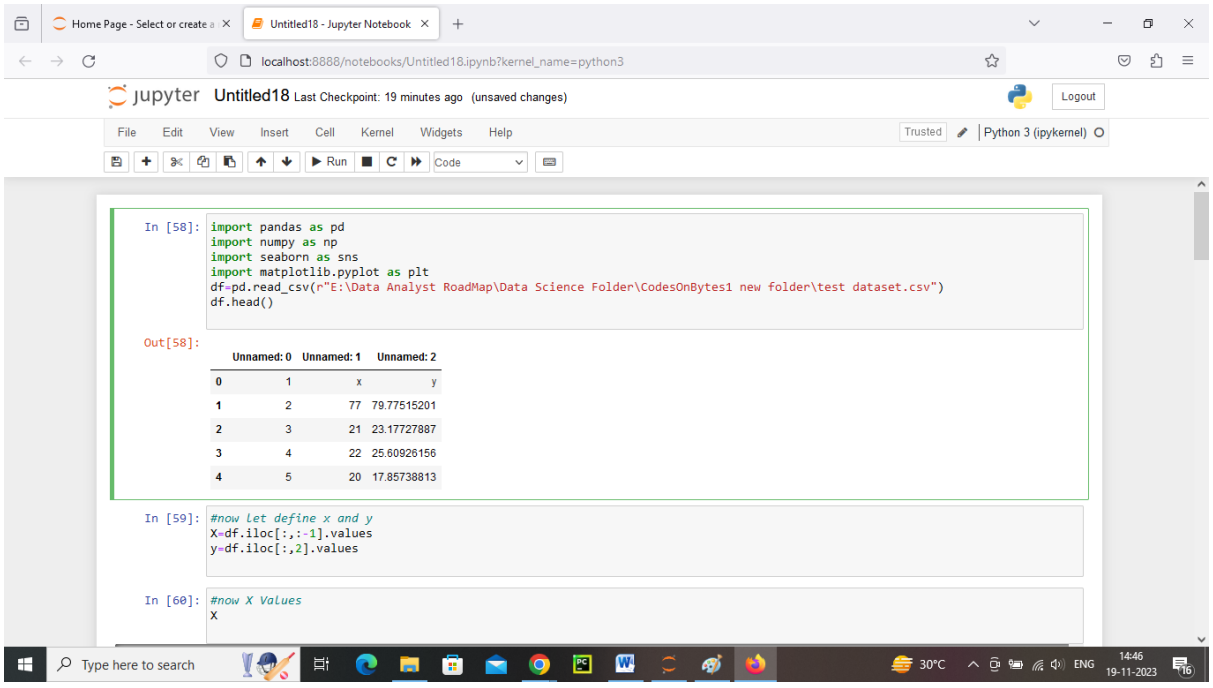
import numpy as np

import seaborn as sns

import matplotlib.pyplot as plt

df=pd.read_csv(r"E:\Data Analyst RoadMap\Data Science Folder\CodesOnBytes1 new folder\test dataset.csv")

df.head()



#now let define x and y

X=df.iloc[:,:-1].values

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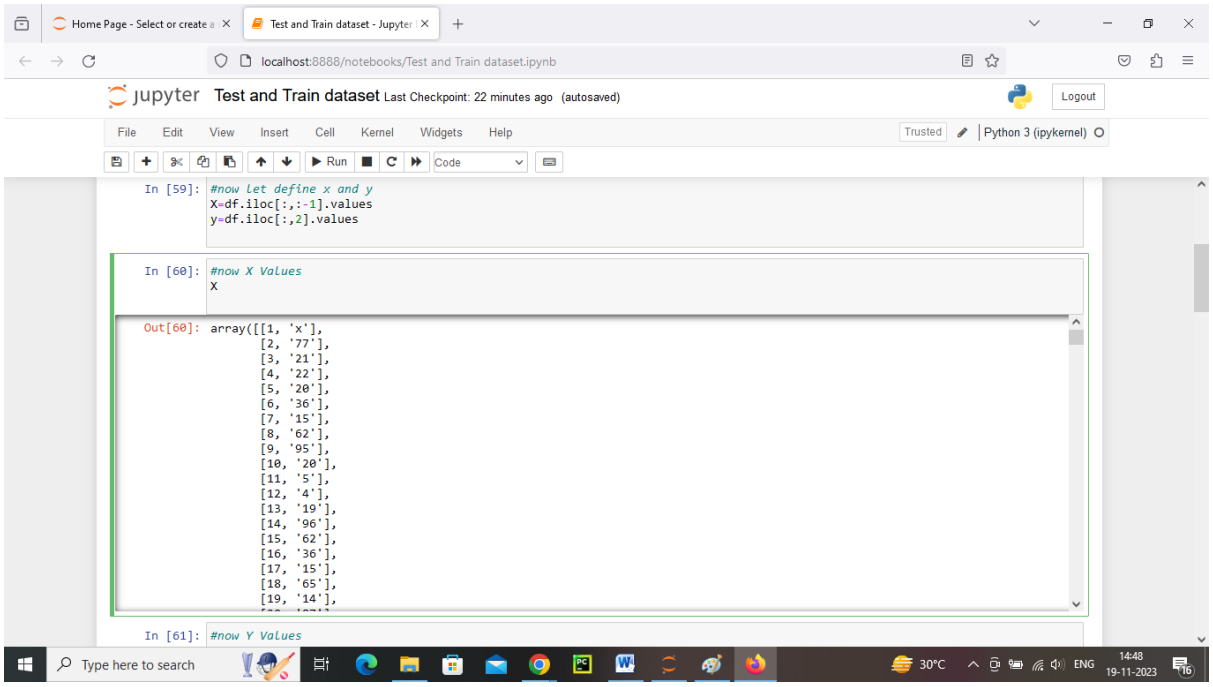
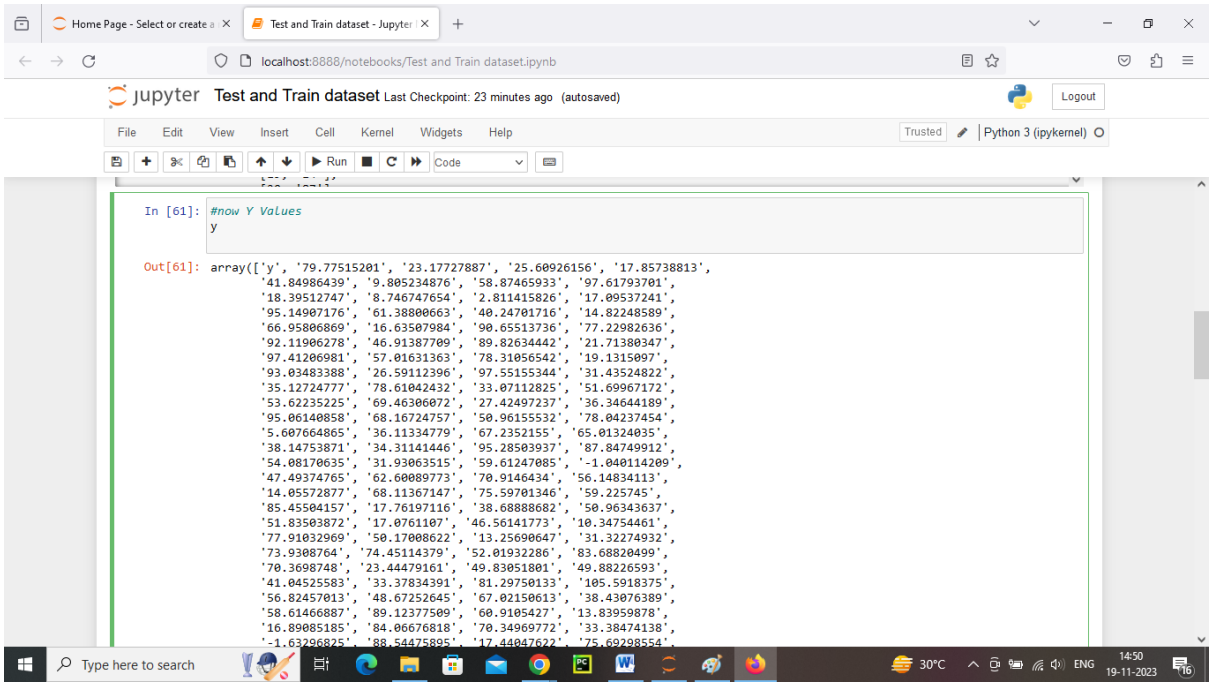
#now X Values

X

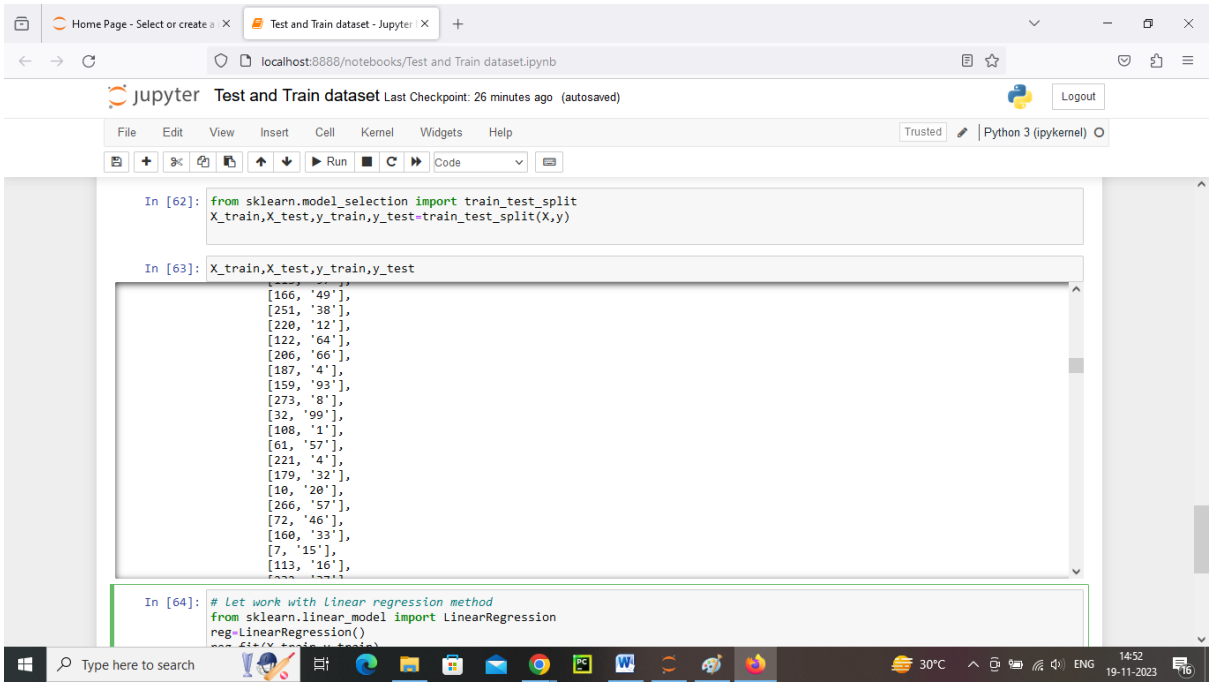


#now Y Values

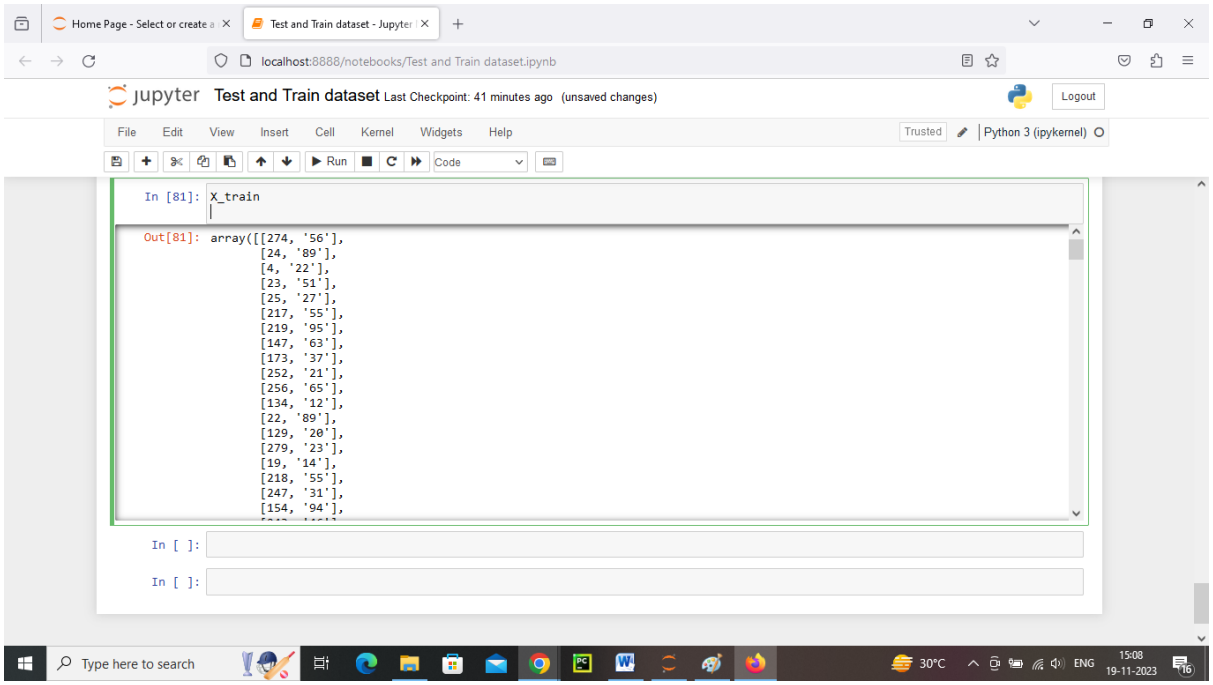
Y



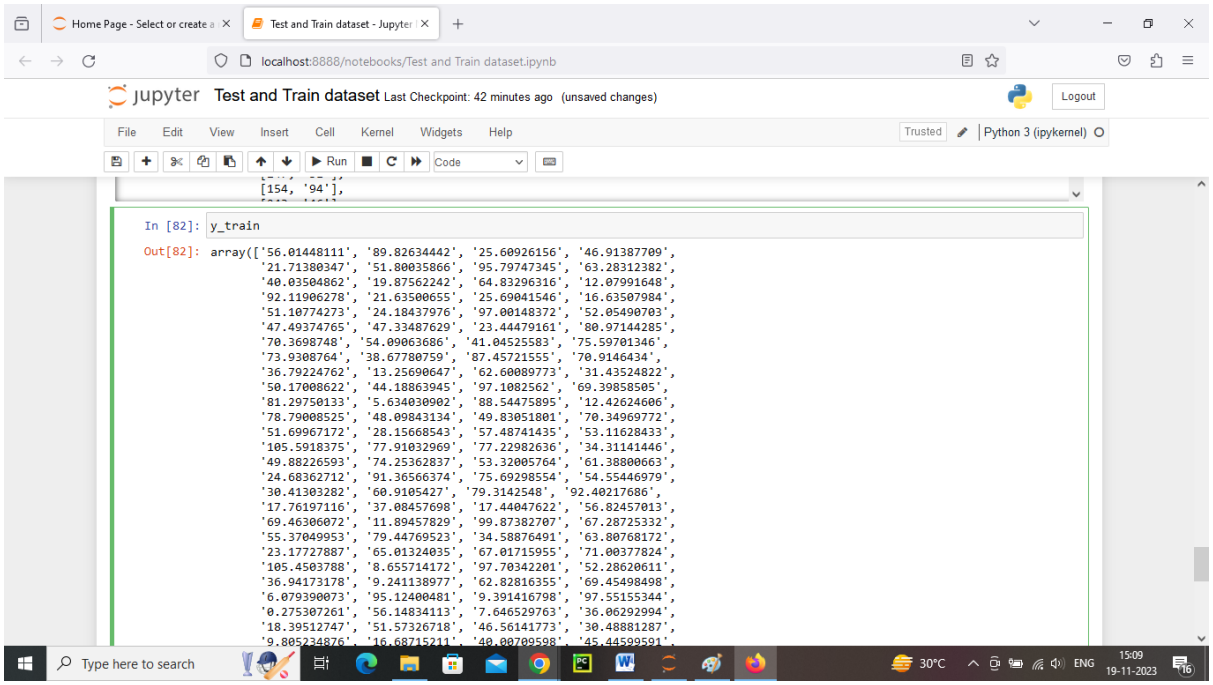
```
from sklearn.model_selection import train_test_split
X_train,X_test,y_train,y_test=train_test_split(X,y)
X_train,X_test,y_train,y_test
```



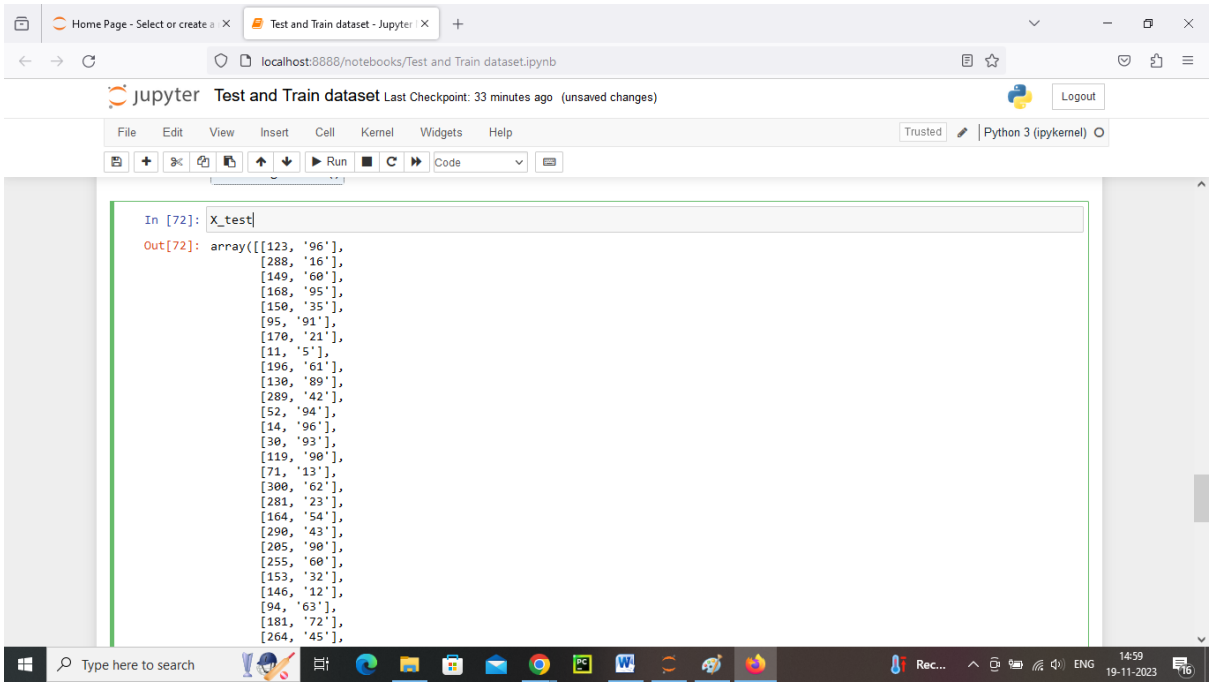

```
X_train
```



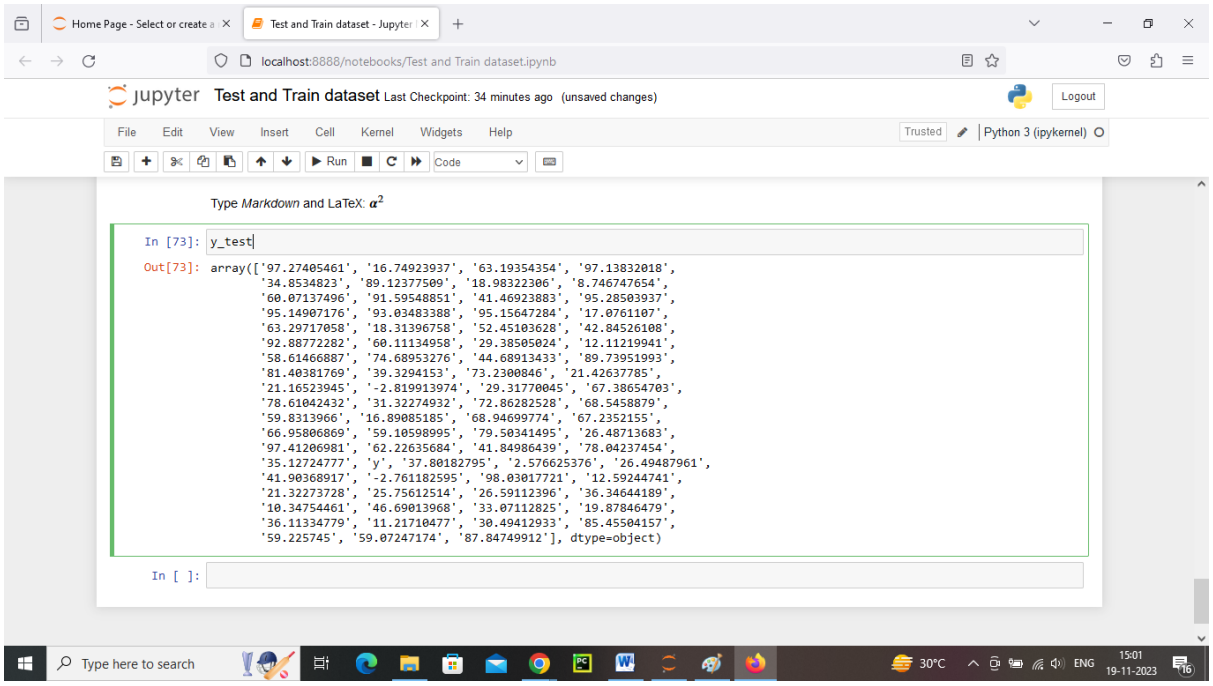
y_train



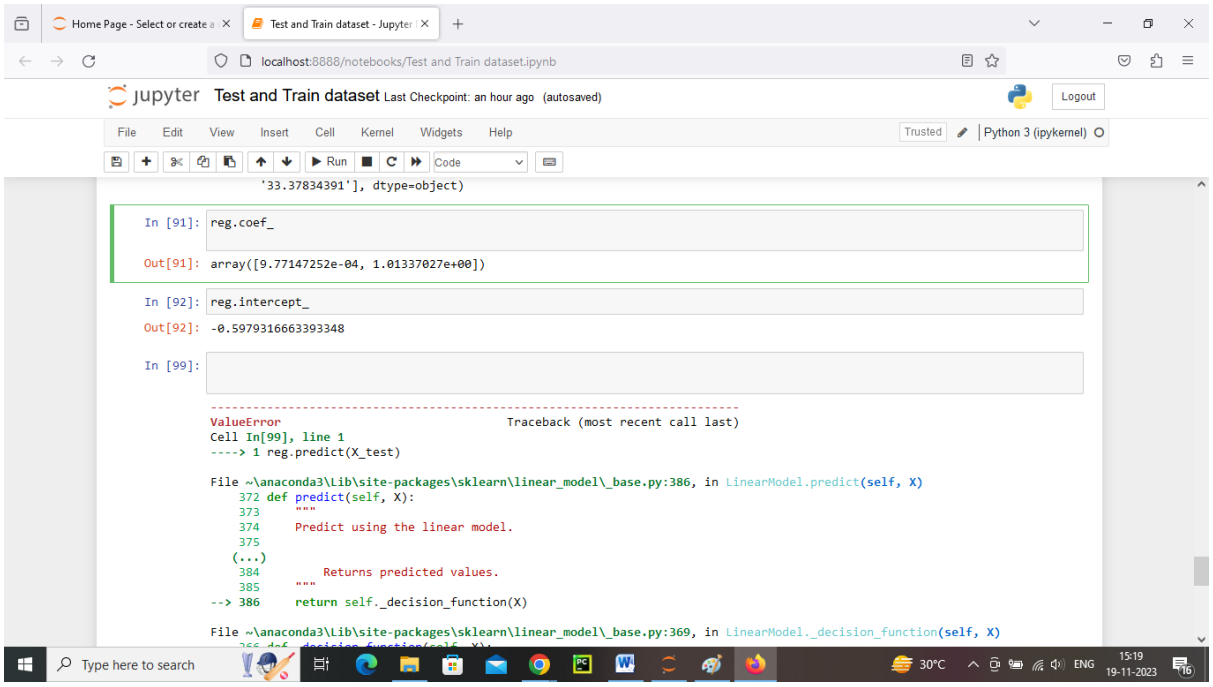
X_test



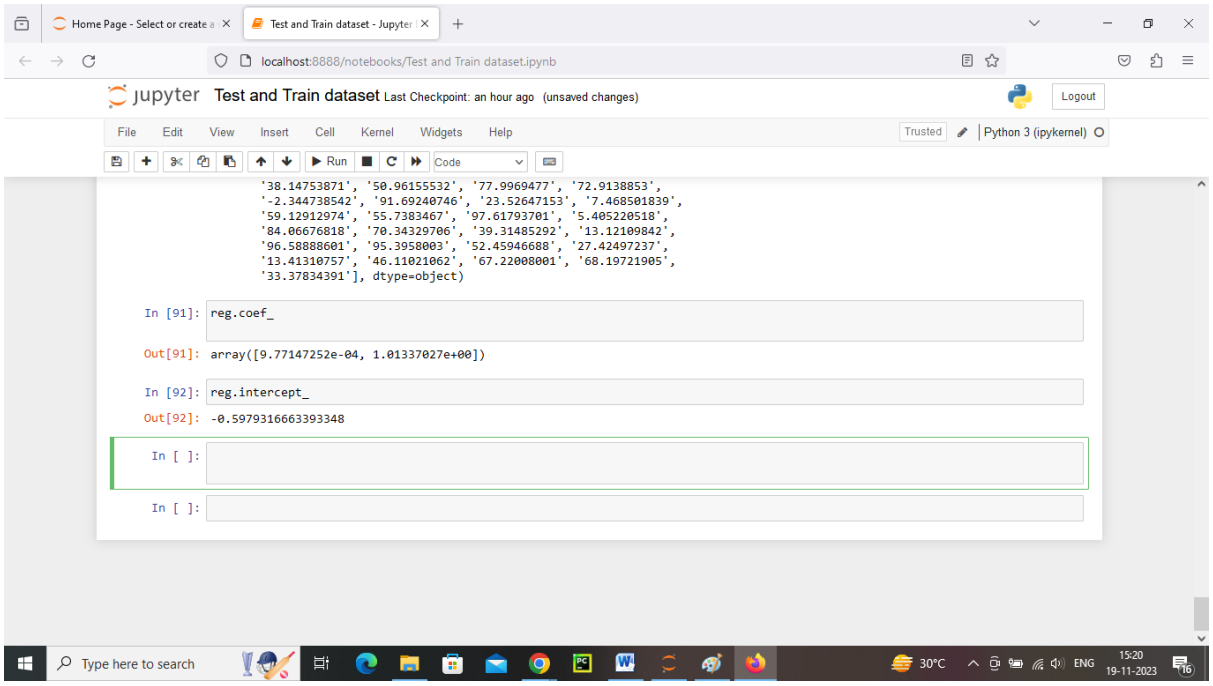
y_test



reg.coef_



reg.intercept_

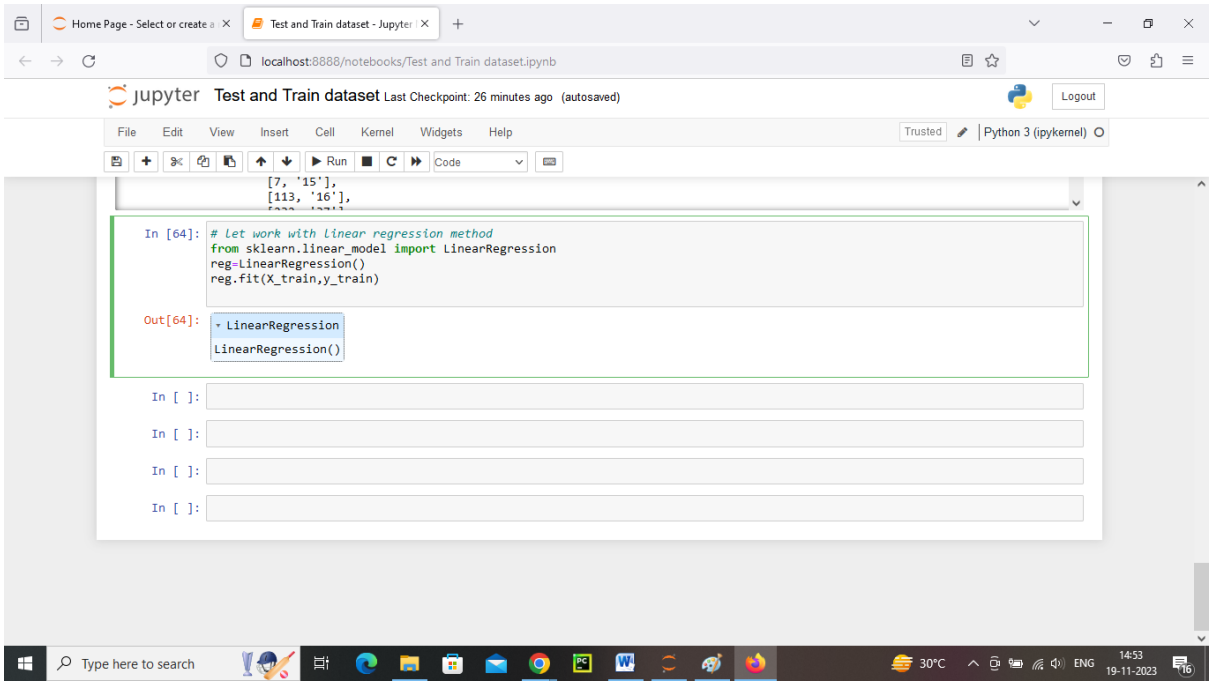



```
# let work with linear regression method

from sklearn.linear_model import LinearRegression

reg=LinearRegression()

reg.fit(X_train,y_train)
```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Test and Train dataset - Jupyter
localhost:8888/notebooks/Test and Train dataset.ipynb
jupyter Test and Train dataset Last Checkpoint: 26 minutes ago (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
[7, '15'],
[113, '16'],
In [64]:
# Let work with linear regression method
from sklearn.linear_model import LinearRegression
reg=LinearRegression()
reg.fit(X_train,y_train)
Out[64]:
LinearRegression
LinearRegression()
In [ ]:
In [ ]:
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In [ ]:
Type here to search
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19-11-2023