Salary\_Prediction

import pandas as pd

dataset = pd.read\_csv('Salary\_Data.csv')

dataset.head(5)

x = dataset.iloc[:, :-1].values

y = dataset.iloc[ :, 1].values

from sklearn.model\_selection import train\_test\_split #split dataset into

x\_train, x\_test, y\_train, y\_test = train\_test\_split(x, y, test\_size=1/3, random\_state=0)

from sklearn.linear\_model import LinearRegression

regressor = LinearRegression()

regressor.fit(x\_train, y\_train) # Fit simple Linear Regression model to training set

y\_pred = regressor.predict(x\_test) #Make Prediction

import matplotlib.pyplot as plt

plt.scatter(x\_train, y\_train, color = 'red')

plt.plot(x\_train, regressor.predict(x\_train),color = 'blue')

plt.title('Salary Vs Experience (Training Set)')

plt.xlabel('Years of Experiene')

plt.ylabel('Salary')

plt.show() #Visualizing Training Set

plt.scatter(x\_test, y\_test, color = 'red')

plt.plot(x\_train, regressor.predict(x\_train),color = 'blue')

plt.title('Salary Vs Experience (Test Set)')

plt.xlabel('Years of Experience')

plt.ylabel('Salary')

plt.show() #Visualizing Testing Set

new\_salary\_pred = regressor.predict([[13]])

print(' The Predicted Salary of a Person with 13 Years of Experience is : ', new\_salary\_pred)