Name: Aaftab aalam Mohammad Harun Khan

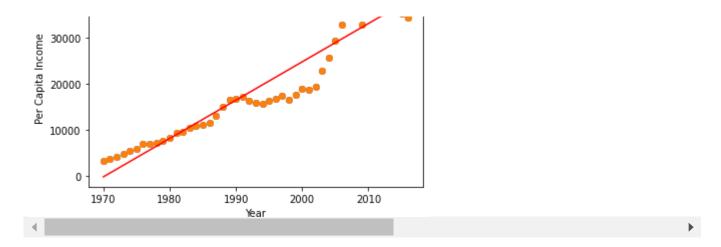
Roll No: 19CO23 Experiment: 01

## Aim: To Implement Linear Regrassion Using Single Variable

```
#importing the python libraries
import pandas as pd
import numpy as np
import os
import matplotlib.pyplot as plt
from sklearn import linear_model
df1 = pd.read_csv("canada_pci.csv")
                                      #reading the canada_pic.csv fiile using pandas data fr
#Assining the axis name
plt.xlabel("Year")
plt.ylabel("Per Capita Income")
plt.scatter(df1.year, df1.pci)
reg1 = linear_model.LinearRegression()
reg1.fit(df1[['year']], df1.pci)
reg1.predict([[2021]])
#axis labels
plt.xlabel("Year")
plt.ylabel("Per Capita Income")
plt.scatter(df1.year, df1.pci)
                                 #ploting the graph
plt.plot(df1.year, reg1.predict(df1[['year']]), color='red')
                                                                #defining the colour of regre
```

/usr/local/lib/python3.7/dist-packages/sklearn/base.py:451: UserWarning: X does not have "X does not have valid feature names, but"

## **New Section**



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