import pandas as pd  
  
data=pd.read\_csv("temperatures.csv")  
  
data

x\_train=data[["YEAR"]]

x\_train

y\_train=data[["ANNUAL"]]

y\_train

from sklearn.linear\_model import LinearRegression

model=LinearRegression()  
  
model.fit(x\_train,y\_train)

predicted=model.predict(x\_train)  
  
predicted

from sklearn.metrics import mean\_squared\_error, mean\_absolute\_error, r2\_score

mean\_squared\_error(y\_train,predicted)

mean\_absolute\_error(y\_train,predicted)

r2\_score(y\_train,predicted)

import matplotlib.pyplot as plt

plt.scatter(x\_train,y\_train, label="Actual", color = "green")

plt.plot(x\_train,predicted, label = "Predicted", color = "red")

plt.xlabel("YEAR")

plt.ylabel("TEMP")

plt.title("Annual Temp Record")

plt.legend()  
  
NOTE: After "import matplotlib.pyplot as plt" all the below codes should be written in same block