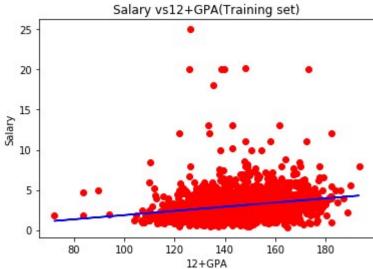
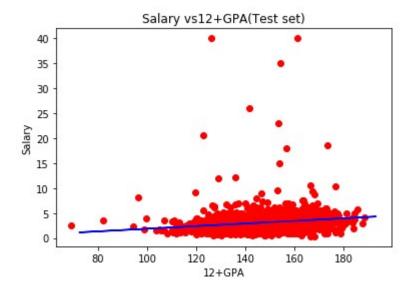
```
In [79]: import matplotlib.pyplot as plt
   ...: import pandas as pd
   ...: df=pd.read csv('G:\Data Analysis\output.csv')
   ...: df=df.dropna()
   ...: df["normalised score"]=(df.t12percentage+ df.collegeGPA)
   \dots: X = df.iloc[:,[38]].values
   ...: y = df.iloc[:, 1].values
In [80]: from sklearn.model selection import train test split
   ...: X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.4,
random_state = 0)
   . . . :
   ...: from sklearn.linear model import LinearRegression
   ...: regressor = LinearRegression()
   ...: regressor.fit(X train, y train)
LinearRegression(copy X=True, fit intercept=True, n jobs=None,
      normalize=False)
In [81]: import statsmodels.api as sm
   ...: model1=sm.OLS(y_train,X_train)
   ...: result=model1.fit()
   ...: print(result.summary())
                     OLS Regression Results
______
                            y R-squared:
Dep. Variable:
                                                         0.736
Model:
                          OLS
                              Adj. R-squared:
                                                        0.736
Method:
                  Least Squares F-statistic:
                                                        5447.
Date:
                Sat, 06 Jul 2019 Prob (F-statistic):
                                                         0.00
                      19:22:41 Log-Likelihood:
                                                       -3959.6
Time:
No. Observations:
                         1953 AIC:
                                                         7921.
Df Residuals:
                         1952 BIC:
                                                         7927.
Df Model:
                           1
Covariance Type:
                     nonrobust
______
          coef std err t P>|t| [0.025 0.975]
______
       0.0210 0.000 73.806 0.000 0.020
______
Omnibus:
                     1781.729 Durbin-Watson:
                                                         2.018
                        0.000 Jarque-Bera (JB):
Prob(Omnibus):
                                                     97469.145
                        4.121 Prob(JB):
Skew:
                                                         0.00
                        36.613 Cond. No.
______
Warnings:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
In [82]: c=0
   ...: y_pred = regressor.predict(X_test)
   ...: for i in range(len(y_pred)):
         y_pred[i]=(y_pred[i]<=y_test[i]+2 and y_pred[i]>=y_test[i]-2)
          if(y pred[i]):
   . . . :
```

```
C+=1
    . . . :
    . . . :
    ...: acc=float(c/len(y_test))
In [83]: acc
Out[83]: 0.8810437452033768
In [84]: plt.scatter(X_train, y_train, color = 'red')
    ...: plt.plot(X_train, regressor.predict(X_train), color = 'blue')
    ...: plt.title('Salary vs12+GPA(Training set)')
...: plt.xlabel('12+GPA')
    ...: plt.ylabel('Salary')
    ...: plt.show()
    ...:
    ...:
    ...: plt.scatter(X_test, y_test, color = 'red')
    ...: plt.plot(X_train, regressor.predict(X_train), color = 'blue')
    ...: plt.title('Salary vs12+GPA(Test set)')
    ...: plt.xlabel('12+GPA')
    ...: plt.ylabel('Salary')
    ...: plt.show()
```





In [85]: