**Assignment 5**

1.Implement Simple Linear Regression using Head Size as the independent variable and Brain Weight as dependent variable from headbrain.csv file.

Also predict the brain weight for a new head size.

Refer the SimpleLinear.html file for implementation. Use Spyder or Jupyter ide under Anaconda for implementation.

Type and execute after each block of statements as shown in the SimpleLinear.html

2. Implement the same above program using Sklearn API. Refer the html file “LinearRegressionUsingSklearAPI.html”. Type in spyder or jupyter in Anaconda and execute. Plot the graph.

3. Implement Simple Linear regression using price column as the dependent variable and the column total\_sqft\_int as the independent variable using the file hprice.csv. Find the root mean square error and R squared value.

Predict the price for one new price and then for 3 new prices.

(Implement without using Sklearn API. Plot the graph)

4. Implement 3rd question using Sklearn API. Use only 75% of the data for training and the rest for testing. (Plot the graph)