# Assignment 1

Download income2.csv from <http://www-bcf.usc.edu/~gareth/ISL/Income2.csv>

For each section copy-paste your written python codes.

1. Explore the data through various figures.

Kotesh : As the years of education is increased, income also increased in the linear fashion.

1. Predict “y = Income” as a linear function of “x = Years of Education” using simple linear regression, and predict Income for a new individual with “x = 18”.
2. Show the scatter plot of Income versus Years of Education, and add the fitted line over the scatter plot.
3. Predict “y = Income” as a linear function of “x1 = Years of Education” and “x2 = Seniority” for a new individual with (x1 = 18, x2 = 60)
4. Discuss “Years of Education” is a stronger predictor of “Income” or “Seniority”? Why?

Yes years of education is stronger predictor of income, since the summary shows that we have very strong value of beta(Co-efficient) compared to the Seniority.