Exercise 3

Research has shown some relationship between income and education. In this exercise you are provided with data about income, education, and other attributes collected from various people for the purposes of a study. To prove (or disprove) the relationship between *education* and *income,* check the file “Income Data” provided on D2L to calculate the following using either Python or R:

1. For Income, education, and prestige please show the following
   1. **Minimum value**
   2. **1st quartile**
   3. **Median**
   4. **Mean**
   5. **3rd quartile**
   6. **Maximum value**
2. Show the **histogram** for *prestige*
3. **Plot** the *income* and *education*
4. Calculate the **variance** and the **standard deviation** for *income*
5. Calculate the **correlation coefficients** and the **p-values** for *income* and *education*

**Tips:**

**The Data**

You can find a CSV (a comma separated) file on D2L “Income Data”, or you can access the data online using this URL 'http://socserv.socsci.mcmaster.ca/jfox/Courses/UCLA/Duncan.txt'

**Watch my tutorial video: “Exercise 3 Video tutorial”**