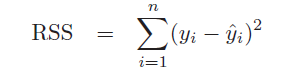
**LAB2 - Simple Linear Regression (continued)**

In this lab, we will repeat our efforts to implement single linear regression on player age to experience (which was already done in LAB1), with small extra steps. This time, we will need two .csv files instead of one. First, we will have to *train* the algorithm using one of the datasets, i.e. we will use our simple linear regression algorithm on that dataset. Next, we will see how our estimation fares against the second dataset, we will *test* our regression line using that one. Two datasets to be used are given in the LAB2 folder.

Instructions:

* Extract the “age” and “experience” columns from the two .csv files just like you did in the first lab session. Label each column accordingly.
* Perform the linear regression algorithm using one .csv file (it doesn’t matter which), ending up with coefficients. Then plot the regression line. When calculating this line (i.e. y = ax + b), you should use the *other* dataset as your “x”. On *top of this line*, plot the *other* dataset as it is (as a scatter plot).
* Perform the same step, reversing the roles of the .csv files.
* When plotting, make sure that both plots appear on the screen *at the same time*!
* As a final extra step, calculate and display the residual sum of squares (RSS) for both cases. We are performing simple linear regression using the *least squares* method, which aims to minimize RSS. The calculation can be found here:
* The only outside packages available for us to use will be “pandas”, “numpy” and “matplotlib”. Any other packages are not permitted for use.

Below are output samples for the plots:

