**Lecture 23 questions**

In this exercise, use the file "wage.csv". This file contains data on the following variables:

* *wage* - hourly wage in kroners
* *hours* - hours worked per week
* *IQ* - intelligence quotient
* *educ* - years of education
* *exper*  - years of experience

**A1.** Import "wage.csv" and put the data into a Pandas data frame.

**A2.** Which variables are positively or negatively correlated?

**A3.** Make a figure with three plots:

1. wage vs. hours
2. wage vs. educ
3. wage vs. exper

Do you think any of these variables can explain the variance seen in hourly wage?

**A4.** Make the following regressions:

1. wage vs. hours
2. wage vs. educ
3. wage vs. exper

Which of the right-hand variables (hours, educ, exper) explain more of the variance of hourly wage?

**A5.** Use the model "wage vs. educ". How will the hourly wage change if education increase by one year?

**A6.** Use the model "wage vs. educ". What is the expected hourly wage for someone with 19 years of education?