**PRACTICAL Week 8 – Multiple linear regression**

1. Open dataset students.sav
2. Paste all calculations and answers to syntax file and save it regularly!
3. We will predict hours of sleep
   1. Recode gender into a new variable female (0=male, 1 = female)
   2. Enter in female and age in the first step
   3. Enter hours spent on the internet in the second step
   4. Which variables are significant? Are the models (blocks) significant?
   5. What are the predicted hours of sleep for 15-year-old male, spending 4 hours on the internet per day?
   6. What is the *R*2? What is the adjusted *R*2?
   7. Write-up the results.
4. Include Grade in Model 1 and rerun the regression.
   1. How did the estimate for Age change?
   2. Obtain VIF and tolerance. Interpret.
5. Run a stepwise regression with all the variables predicting hours of sleep.
   1. Which variables are in the final model?
   2. What is the adjusted *R*2?

**Submit your practical:**

Save your syntax file to Homework Vaults