**PRACTICAL Week 5 - ANOVA**

1. Open the dataset students.sav
2. Paste all calculations and answers to syntax file and save it regularly!
3. Test whether there is a statistically significant difference of **weight** by **school grade (recoded)**
   1. How is school grade distributed?
   2. Recode school grade into 3 groups: 6-7, 8-9, 10+
   3. Are there outliers in the DV or the IV?
   4. Obtain a plot
   5. Run Welch test
4. Run a post-hoc test
   1. Which groups are significantly different?
   2. Write-up the results
5. Test whether this effect remains once we control for **height**
   1. Run a post-hoc test
   2. Obtain a plot
6. Test the effects of **gender** and **grade** on **weight**
   1. Is there a significant interaction?
   2. Obtain a plot
7. Test whether there are sig. differences in **weight** by **gender**
   1. Report *t* test
   2. Report *F* test

**Submit your practical:**

Save your syntax file to Homework Vaults