PRACTICAL Week 6 – Simple linear regression

1. Open dataset students.sav
2. Paste all calculations and answers to syntax file and save it regularly!
3. **Test whether age predicts height.**
   a. Diagnostics
      i. Are there any outliers in IV and DV?
      ii. Are the residuals homoscedastic?
      iii. Are the residuals normally distributed?
   b. Results
      i. What is the predicted height for 15,05 years old participants?
      ii. What proportion of variance in height does age explain?
      iii. Is the proportion statistically significant?
      iv. What is the magnitude and significance of the regression coefficients (B, β)
      v. Interpret the coefficients.
      vi. Write-up the results.
4. **Test whether the number of hours spent online predicts the number of hours slept per night.**
   a. Diagnostics
      i. Are there any outliers in IV and DV?
      ii. Are the residuals homoscedastic?
      iii. Are the residuals normally distributed?
   b. Results
      i. What is the predicted number of hours slept per night for participants who spend 3 hours per day online?
      ii. What proportion of variance in hours slept per night do hours spent online explain?
      iii. Is the proportion statistically significant?
      iv. What is the magnitude and significance of the regression coefficients (B, β)
      v. Interpret the coefficients.
      vi. Write-up the results.

Submit your practical:
- Save your syntax file to Homework Vaults