Exploring Data with R (option - own practical exercise)

It is very important to explore data before starting to build a predictive model. It gives an idea about the structure of the dataset like number of continuous or categorical variables and number of observations (rows).

Choose the dataset **"attitude"** from the R Datasets Package.

Prepare an **R Markdown document** for this lab work.

Determine what R function to use for the following:

1. **See basic descriptive statistics**

Run the function and observe the output, paste your output here.

   a) *What is the difference between (attitude[3]) and (attitude$learning)*

2. **Lists name of variables in a dataset**

3. **Calculate number of rows in a dataset**

4. **Calculate number of columns in a dataset**

5. **List structure of a dataset**

6. **See first 6 rows (by default) of dataset**

7. **See first n rows of dataset**
   Select to see the first 15 rows of dataset

8. **See all rows but the last row**

9. **See last 6 rows (by default) of a dataset**

10. **See last n rows of dataset**
    Select to see the last 12 rows of dataset.

11. **See the last n rows but the first row**

12. **Number of missing values**
    Which function will returns number of missing values in each variable of a dataset?

13. **Number of missing values in a single variable**

14. Plot a simple graph, which will appear on a screen device.

15. Plot the graph shown below, and make it appear on a file device (a pdf file)