Case Study: Introduction to R

Note: The class discussion and pre-class videos should be helpful in attempting this assignment, you should search R help using ? Operator followed by object name. You should also feel free to use google in order to solve a specific problem that you might face, R being open source has a very limited official documentation but there are tonnes of resources available online and getting used to online help will help you pick up R quickly.

1. Create a data frame named **customer_details**, with 3 rows and 4 columns and following values:

Name	Age	Telephone_bill_rs	Month
Ramya	25	600	Aug
Ali	30	400	Aug
Jim	35	200	Aug

2. This question is related to creating lists. Write code for following steps :
   a) Create a list called **names**, include following attributes in this list :
      a. last_name: *Potter, Riddle, Dumbledore*
      b. first_name: *Harry, Tom, Albus*
      c. age: *18,50,120*
      d. profession: *Student, Magician, Headmaster*
   b) How will you display all the values in attribute **last_name**?
   c) How will you display the 3rd element of attribute **age**?

3. Write code for the following steps :
   a) Load the package **ggplot2** into the workspace
   b) Load the data **msleep** into the workspace. To know more about this dataset, run the command *?msleep*
   c) Display all the names of this dataset
   d) Rename the column **vore** to **type**
   e) Display first ten values in the column **type** you just created
   f) Choose the columns **name, genus, type, and sleep_total** from the dataset and store it in a new dataset. Save the converted data set in your working directory using write.csv () function.

4. This Question is to get you comfortable with reading excel workbook and worksheets.
   Follow the steps as mentioned below :
   a) Load the package **readxl** to read excel files

Write a code to load the workbook retail.xlsx in the location **C\DS Full stack\Assignments\Non Graded Assignment\ R for Data Science**
   b) Read the two worksheets **data1** and **data2** separately into two data frames
      [*Hint: Refer to the documentation of this package for instructions on to how to use it*]