

# **Exercise – Data Structures in R**

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 |

1. Create a list called Names, include following attributes in this list :
   1. Last Name: Potter, Riddle, Dumbledore
   2. First Name: Harry, Tom, Albus
   3. Age: 18,50,120
   4. Profession: Student, Magician, Headmaster
2. How will you display all the values in attribute Last Name?
3. How will you display the 3rd element of attribute Age?
4. Load the package ggplot2 into the workspace
5. Load the data msleep into the workspace.
6. Display help documentation to know more about msleep dataset.
7. Display all the column names of msleep dataset
8. Rename the column vore to type
9. Display first ten values in the column type you just created.
10. Convert the column type into a character data type.
11. Use str(msleep) and take a look at the data types of various columns in this data, paying attention to where columns are of type “factor”, do you think that use of factors for all columns justified? Would you like to convert any column into a character type? Write down your reasons.
12. Choose the columns name, genus, type, and sleep\_total from the dataset and store it in a new dataset.

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