ACADGILD ASSIGNMENT - 1

1) Please mention true or false for the below statements:

a) **Prescriptive Analytics is used to predict the future outcomes.**
ANSWER: False
EXPLANATION : Prescriptive Analytics, which use optimization and simulation algorithms to advice on possible outcomes and answer

b) **Base R packages are installed automatically**
ANSWER: True

2) What is Recycling of elements in a vector?

ANSWER: When applying an operation to two *vectors* that requires them to be the same length, R automatically recycles, or repeats, elements of the shorter one, until it is long enough to match the longer Vector

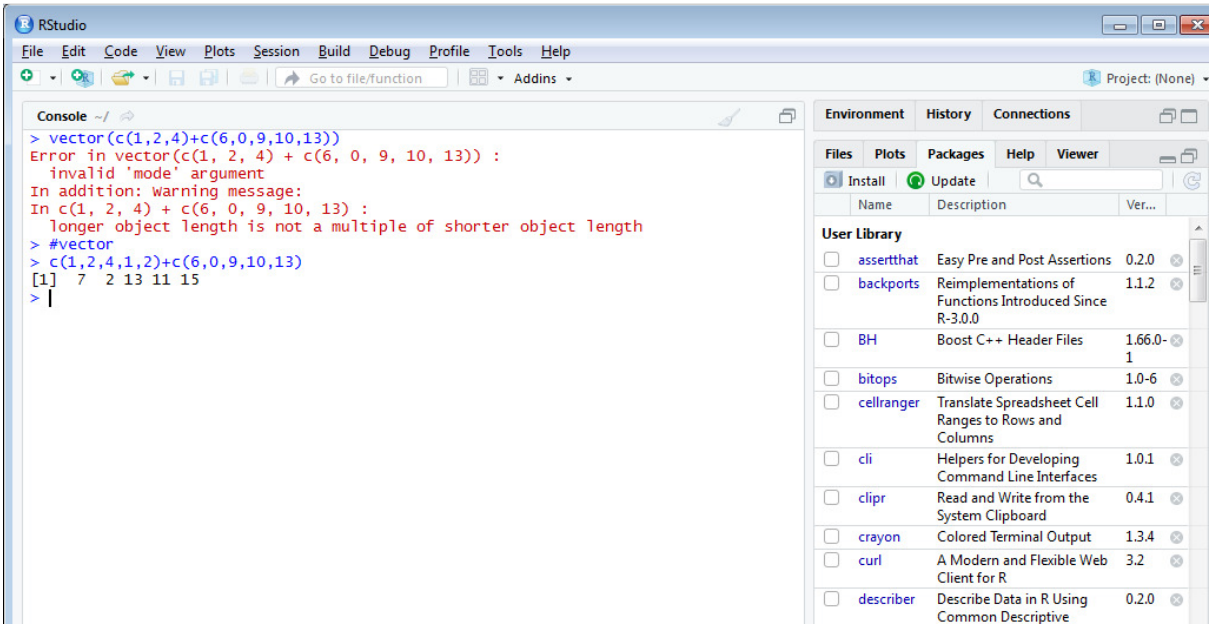
3) Give an example of recycling of elements.

ANSWER : Suppose we have two Vectors c(1,2,4) , c(6,0,9,10,13), where the first one is shorter with only 3 elements. Now if we sum these two, we will get a warning message as follows.

```
> c(1,2,4) + c(6,0,9,10,13)
[1]  7  2 13 11 15
Warning message:
In c(1, 2, 4) + c(6, 0, 9, 10, 13) :  longer object length is not a multiple of shorter object length
```

Here R , Sum those Vectors by Recycling or repeating the elements in shorter one, until it is long enough to match the longer one as follows..

```
> c(1,2,4,1,2) + c(6,0,9,10,13)
[1]  7  2 13 11 15
```


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
Project: (None)
Console ~/
> vector(c(1,2,4)+c(6,0,9,10,13))
Error in vector(c(1, 2, 4) + c(6, 0, 9, 10, 13)) :
invalid 'mode' argument
In addition: Warning message:
In c(1, 2, 4) + c(6, 0, 9, 10, 13) :
longer object length is not a multiple of shorter object length
> #vector
> c(1,2,4,1,2)+c(6,0,9,10,13)
[1] 7 2 13 11 15
>
Environment History Connections
Files Plots Packages Help Viewer
Install Update
Name Description Ver...
User Library
assertthat Easy Pre and Post Assertions 0.2.0
backports Reimplementations of Functions Introduced Since R-3.0.0 1.1.2
BH Boost C++ Header Files 1.66.0-1
bitops Bitwise Operations 1.0-6
cellranger Translate Spreadsheet Cell Ranges to Rows and Columns 1.1.0
cli Helpers for Developing Command Line Interfaces 1.0.1
clipr Read and Write from the System Clipboard 0.4.1
crayon Colored Terminal Output 1.3.4
curl A Modern and Flexible Web Client for R 3.2
describer Describe Data in R Using Common Descriptive 0.2.0