

ASSIGNMENT 1

Q1. Please mention true or false for the below statements:

a) Prescriptive Analytics is used to predict the future outcomes - **FALSE**

b) Base R packages are installed automatically - **TRUE**

Q2. What is Recycling of elements in a vector?

When two vectors are not of the same length and an operation needs to be performed in R that requires both vectors to be of the same length, R will repeat the elements in the shorter vector until it is the same length as the longer one.

Q3. Give an example of recycling of elements

In the below example, the elements in column x have repeated/recycled starting index# 6

```
> x<-c(1,2,3,4,5)
> y<-c(11:20)
> cbind(x,y)
      x  y
[1,] 1 11
[2,] 2 12
[3,] 3 13
[4,] 4 14
[5,] 5 15
[6,] 1 16
[7,] 2 17
[8,] 3 18
[9,] 4 19
[10,] 5 20
```