## **Data Science Programming in R**

- 1. Say True or False
  - a. Prescriptive Analytics is used to predict the future outcomes? **FALSE**
  - b. Base R packages are installed automatically? **TRUE**
- 2. What is Recycling of Elements in a vector?

Recycling of elements is when R automatically repeats elements of a shorter vector when performing an operation that requires vectors of the same length. R repeats the shorter vector so that it matches the length of the longer vector.

3. Give an example of recycling of elements.

a=c(1,2,3)

b=c(99,98,97,96,95,94)

In a+b: R will automatically repeat a so that it matches the length of b. a logically becomes a'=c(1,2,3,1,2,3) so that the arithmetic becomes:

c(1,2,3,1,2,3) + c(99,98,97,96,95,94) [1] 100,100,100,97,97,97