# Problem Statement

1. Say True or False for the below statements:

* Prescriptive Analytics used to predict the future outcomes?

ANS :- False

Predictive Analytics is use to predict the future outcome.

Prescriptive Analytics is use to optimization and simulation algorithms to find an advice on possible outcomes.

* Base R packages installed automatically?

ANS:- True

In R Studio some base packages are coming pre-installed. To use that we have to Load it manually.

1. What is Recycling of elements in a vector?

Vectors occurring in the same expression need not all be of the same length. If they are not, the value of the expression is a vector with the same length as the longest vector which occurs in the expression. Shorter vectors in the expression are recycled as often as need be (perhaps fractionally) until they match the length of the longest vector. In particular a constant is simply repeated.

1. Give an example of recycling of elements.

a<- c(1,2,4) + c(6,0,9,20,22)

Warning message:

In c(1, 2, 4) + c(6, 0, 9, 20, 22) :

longer object length is not a multiple of shorter object length

c(1,2,4) recycled to match the length of second vector.

It will become like this

a <- c (1,2,4,1,2) + c(6,0,9,20,22)

> a

[1] 7 2 13 21 24

|  |
| --- |
|  |