ACADGILD ASSIGNMENT 1.1

1. Please mention true or false for the below statements

A) Prescriptive Analytics is used to predict the future outcomes
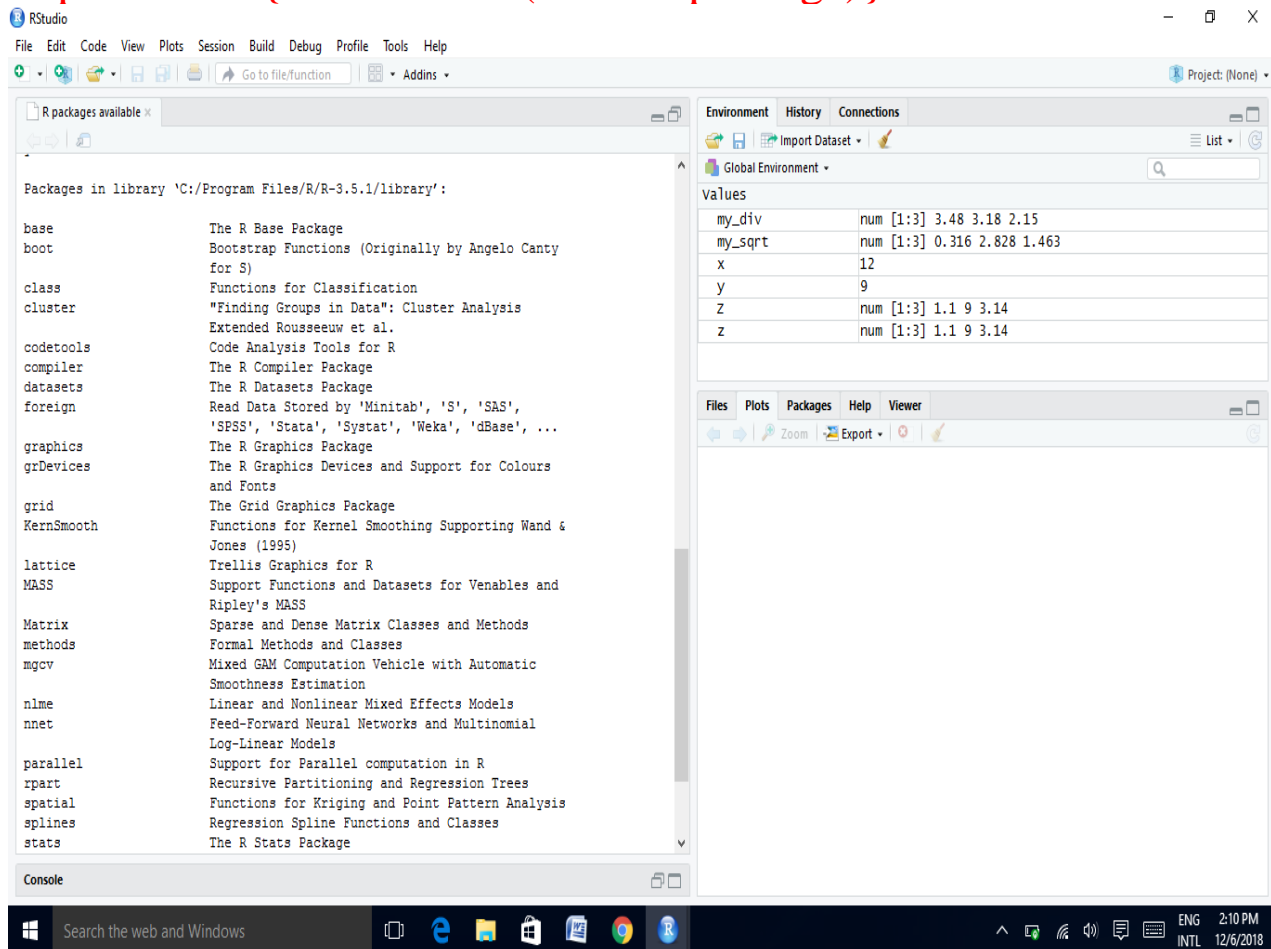
Answer: False

Explanation: Prescriptive Analytics, which use optimization and simulation algorithms to advice on possible outcomes and answer: "What should we do?"

B) Base R packages are installed automatically

Answer: True

Explanation: {Screen shot (base R package)}

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:
Example
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

Explanation
Screenshot example of recycling of elements