Assignment-1 Session -2 – 19/05/2018

1. Prescriptive Analytics is used to predict future outcomes – FALSE
2. Base R Packages are installed automatically – TRUE
3. What is recycling of elements in a vector?

ANSWER: Vector is a collection of similar type of values, number, integers, texts, etc. When we are supposed to make some mathematical operation on two vectors, and the rule requires that the two vectors should possess the same length, then if the two vectors are of the same length, the operations goes through without any issue. But if a 5 element vector and a 10 element vector are to be added, then as per rule, we can’t add them directly since there is an element to element mapping in addition in R. So r by default tries to repeat the shorter length vector and equals the length with the other vector and then performs the addition. So this process of auto repeating the elements of a vector to assist mathematical operations between unequal length vectors is recycling

1. Give an example of recycling of elements in vector

ANSWER: Say there is a vector A = (1,2,3,4,5) , B = (1,2,3,4,5,6,7,8,9,10). And we want to add the two vectors, then R would first create a recycled vector A as (1,2,3,4,5,1,2,3,4,5) to make the length equal to that of B and then adds them and gives the answer (2,4,6,8,10,7,9,11,13,15)