**Session 1 - Introduction**

**Assignment -1**

Problem Statement:

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

* Prescriptive Analytics used to predict the future outcomes?

**Answer**: True

* Base R packages installed automatically?

**Answer**: True

1. 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. This is called Recycling of elements in a vector.

1. Give an example of recycling of elements.

**Answer**:

> c(1,4,5,6,7) + c(2,3)

[1] 3 7 7 9 9

Warning message:

In c(1, 4, 5, 6, 7) + c(2, 3) :

longer object length is not a multiple of shorter object length

Note – R Script attached

Explanation: Here the vector c(2,3) has repeated itself to form c(2,3,2,3,2). Thus matching the size of vector c(1,4,5,6,7) and then performed the ‘+’ operation.