Data Analytics

Session-I - Introduction

**Assignment – 1.1**

**1). Introduction**

This assignment help us to understand the key concepts while learning in this session.

**2). Objective**

This assignment will test our skills on the basics of Data Analytics

**3). Prerequisite**

Not Applicable

**4). Associated Data Files**

Not Applicable

**5). Problem Statement**

1. Say True or False for the below statements:

• Prescriptive Analytics used to predict the future outcomes?

Ans: No

• Base R packages installed automatically?

Ans: No

2. What is Recycling of elements in a vector?

Ans: 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.

Ans: Example 1:  
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

(R studio file attached )

**6). Expected Output**

Not Applicable