

Assignment 1.1

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

a) Prescriptive Analytics is used to predict the future outcomes

Answer - True

b) Base R packages are installed automatically

Answer – True

2. What is Recycling of elements in a vector?

When we are applying an operation (Arithmetic) to 2 vectors, the length of both the vectors should be same. If one vector is shorter than the second vector, R recycles or repeat the shorter vector, until it is long enough to match the longer vector.

3. Give an example of recycling of elements.

#Assigning values 1,2,3 to vector x

```
> x <- c(1,2,3)
```

#Assigning values 2,3 to vector y

```
> y <- c(2,3)
```

#Adding the two vectors, i.e. x and y

```
> x+y
```

Result : [1] 3 5 5

#The shorter vector was recycled so the vector y value was converted to

```
# y <- c(2,3,2) (Recycled Value)
```