1.

**a) Prescriptive Analytics used to predict the future outcomes?** - False

**b) Base R packages installed automatically?** - TRUE

**2. What is Recycling of elements in a vector?**

When applying an operation to two vectors that requires them to be the same length,

R automatically takes the shorter vector and repeats the elements until it becomes long enough to match the longer one.

**3. Give an example of recycling of elements.**

For example let’s consider two vectors of varying length. One has two element and another one has say 4 elements.

> a<- c(1,2)

> b<- c(1,2,3,4)

If we try to add this two vectors, a and b.

> a+b

[1] 2 4 4 6

We see that a's elements have been repeated or recycled to give c(1,2,1,2) which when added to (1,2,3,4) gives the answer (2,4,4,6)