Assignment 3.2

Name : Y Vasudev

Batch : DA with R , Excel and Tableau

1. Define matrix mymat by replicating the sequence 1:5 for 4 times and transforming into a matrix, sum over rows and columns.

>mymat<-matrix(rep(seq(5), 4), ncol = 5)

> mymat

[,1] [,2] [,3] [,4] [,5]

[1,] 1 5 4 3 2

[2,] 2 1 5 4 3

[3,] 3 2 1 5 4

[4,] 4 3 2 1 5

> apply(mymat, 1, sum) # `mymat` sum on rows

[1] 15 15 15 15

> apply(mymat, 2, sum) # `mymat` sum on columns

[1] 10 11 12 13 14

> # With user defined function within the apply that adds any number `y` to the sum of the row # `y` is set at `4.5`

> apply(mymat, 1, function(x, y) sum(x) + y, y=4.5)

[1] 19.5 19.5 19.5 19.5