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

Ans.

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)

apply(mymat,2,sum)

> apply(mymat,1,sum)

[1] 15 15 15 15

> apply(mymat,2,sum)

[1] 10 11 12 13 14