 **Problem Statement**

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

**Answer**:

mymat<-matrix(rep(c(1:5),4),nrow = 4,ncol = 5) # Defineing matrix with replicating values 1 to 5 four time

mymat;

#Output

> 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

rowSums(mymat) # sum of rows

colSums(mymat) # sum of column