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
#sum on Rows
apply(mymat, 1, sum)
rowSums(mymat)
#sum on columns
apply(mymat, 2, sum)
colSums(mymat)
 > mymat<-matrix(rep(seq(5), 4), ncol = 5)
                       5
                                    3
4
5
                              4
                 2
                              5
                       2
 > apply(mymat, 1, sum)
[1] 15 15 15 15
```

> rowSums(mymat) [1] 15 15 15 15