# define matrix mymat by replicating the sequence 1:5 for 4 times and transforming into a matrix

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

# mymat sum on rows

apply(mymat, 1, sum)

## [1] 15 15 15 15

# mymat sum on columns

apply(mymat, 2, sum)

1. 15
2. 15
3. 15
4. 15
5. 10
6. 11
7. 12
8. 13
9. 14