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

# 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)**