Assignment3.2

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# Assignment 3.3

## 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(1:5,4), nrow = 4, ncol = 4)
colnames(mymat) <- c("col1", "col2", "col3","col4")
rownames(mymat) <- c("row1", "row2","row3","row4")
mymat

##      col1 col2 col3 col4
## row1    1    5    4    3
## row2    2    1    5    4
## row3    3    2    1    5
## row4    4    3    2    1

# Add all Rows and Columns

rowSums(mymat)

## row1 row2 row3 row4
##   13   12   11   10

colSums(mymat)

## col1 col2 col3 col4
##   10   11   12   13
```

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