```
my_mat<-matrix(c(2:21),nrow=5,byrow = TRUE)</pre>
my_mat
##
       [,1] [,2] [,3] [,4]
## [1,]
       2
             3
## [2,]
       6
             7
                 8
## [3,] 10
             11 12 13
## [4,] 14
             15 16 17
## [5,] 18
             19 20 21
my_mat < -matrix(c(4,3,5,6,7,8), nrow=2, ncol=3, byrow = FALSE)
my_mat
       [,1] [,2] [,3]
##
## [1,] 4 5 7
## [2,]
       3 6
x<-matrix(c(5:16),nrow=4,byrow=TRUE)</pre>
##
       [,1] [,2] [,3]
## [1,]
        5
## [2,]
         8
             9 10
## [3,]
             12 13
        11
## [4,]
       14 15 16
x<-matrix(c(5:16),nrow=4,byrow=FALSE)
x
       [,1] [,2] [,3]
##
## [1,]
       5 9 13
## [2,] 6 10 14
## [3,] 7 11 15
## [4,]
       8 12 16
row_name<-c("r1","r2","r3","r4")
col_name<-c("c1","c2","c3")</pre>
z<-matrix(c(7:18),nrow=4,byrow = TRUE,dimnames=list(row_name,col_name))</pre>
     c1 c2 c3
##
## r1 7 8 9
## r2 10 11 12
## r3 13 14 15
## r4 16 17 18
z[3,1]
## [1] 13
```

```
z[4,2]
## [1] 17
z[2,]
## c1 c2 c3
## 10 11 12
z[3,2] < -100
## c1 c2 c3
## r1 7 8 9
## r2 10 11 12
## r3 13 100 15
## r4 16 17 18
z[z==100]<-0
z[z<15]<-00
## c1 c2 c3
## r1 0 0 0
## r2 0 0 0
## r3 0 0 15
## r4 16 17 18
rbind(z,c(2,3,4))
## c1 c2 c3
## r1 0 0 0
## r2 0 0 0
## r3 0 0 15
## r4 16 17 18
## 2 3 4
cbind(z,c(8,9,11,45))
## c1 c2 c3
## r1 0 0 0 8
## r2 0 0 0 9
## r3 0 0 15 11
## r4 16 17 18 45
```

```
t(z)
## r1 r2 r3 r4
## c1 0 0 0 16
## c2 0 0 0 17
## c3 0 0 15 18
a1<-matrix(c(5:16),nrow=4,ncol=3,byrow=TRUE)</pre>
## [,1] [,2] [,3]
## [1,] 5 6 7
## [2,] 8
           9 10
## [3,] 11 12 13
## [4,] 14 15 16
b1<-matrix(c(4:15),nrow=4,ncol=3,byrow=TRUE)
     [,1] [,2] [,3]
## [1,] 4 5 6
## [2,] 7
               9
           8
## [3,] 10 11 12
## [4,] 13 14 15
sum<-a1+b1
sum
## [,1] [,2] [,3]
## [1,] 9 11 13
## [2,] 15
           17 19
## [3,] 21 23 25
## [4,] 27 29 31
```