EXPERIMENT 04
REG NO : 727822TUAD049

PROBLEMS FOR PRACTICE:

QUESTION NO:1

INPUT:

```
p<-matrix(c(0.1,0.2,0.1,0.15,0.3,0.15),ncol=2)
p
px<-apply(p,1,sum)
px
py<-apply(p,2,sum)
py
```

OUTPUT:

```
> p<-matrix(c(0.1,0.2,0.1,0.15,0.3,0.15),ncol=2)
> p
[,1] [,2]
[1,] 0.1 0.15
[2,] 0.2 0.30
[3,] 0.1 0.15
> px<-apply(p,1,sum)
> px
[1] 0.25 0.50 0.25
> py<-apply(p,2,sum)
> py
[1] 0.4 0.6
>
```

QUESTION NO:2

INPUT:

```
p<- matrix(c(0.02,0.05,0.03,0.08,0.2,0.12,0.1,0.3,0.15),ncol=3)
p
px<-apply(p,1,sum)
px
py<-apply(p,2,sum)
py
```

OUTPUT:

```
> p<- matrix(c(0.02,0.08,0.01,0.05,0.2,0.3,0.03,0.12,0.15),ncol=3)
> p
[,1] [,2] [,3]
[1,] 0.02 0.08 0.10
[2,] 0.05 0.20 0.30
[3,] 0.03 0.12 0.15
> px <- apply(p,1,sum)
> px
[1] 0.20 0.55 0.30
> py <- apply(p,2,sum)
> py
[1] 0.10 0.40 0.55
>
```