Exercise 4

Questions

1. Write a function to find the standard deviation of a matrix, using apply function
2. Initialize your plot :

```
plot(1:10,1:10,type="n")
        for(i in 1:10){
                lines(c(i,i),c(1,20))
                }
        for(j in 1:20){
        lines(c(1,10),c(j,j))
       }
```

3. Observe the output:

```
plot(1:10,1:10)
        for(i in 1:10){
                for(j in 1:20){
                        points(i,j)
                }
         }
```

4. Observe the output:

```
plot(1:10,1:10)
        for(j in 1:20){
                color <- if( j %% 2 ==0 ){ "blue" } else { "red"}
                 lines( c(1,10), c(j,j), col=color )
                 }
```

5. Can you make line color alternate between ”red”, ”blue”, and ”green”?