

Session 3

Assignment 1

Q1

The screenshot shows the RStudio interface with the following components:

- Source Editor:** Contains an R script named 'Untitled2.R' with the following code:

```
1 m=10
2 n=10
3 ctr=0
4 mymat=matrix(0,m,n)
5 for (i in 1:m){
6   for (j in 1:n){
7     if (i==j){
8       break;
9     } else {
10      mymat[i,j]=(i*j)
11      ctr=ctr+1
12    }
13  }
14 }
15 print(i*j)
16 }
17 print(ctr)
18 }
19 }
```
- Console:** Shows the output of the script:

```
+ }
+ }
[1] 1
[1] 4
[1] 9
[1] 16
[1] 25
[1] 36
[1] 49
[1] 64
[1] 81
[1] 100
> print(ctr)
[1] 45
>
```
- Environment Pane:** Displays the objects created in the global environment:

Object	Class	Value
mat	num	[1:3, 1:3] 1 0 0 4 5 0 7 8 9
mymat	num	[1:10, 1:10] 0 2 3 4 5 6 7 8 9 10 ...
b	num	[1:9] 0 2 6 8 9 11 10 12 15
ctr	45	
i	10L	
j	10L	
m	10	
- Package Pane:** Lists installed and available packages, including 'assertthat', 'BH', 'binneR', 'cli', 'colorspace', 'crayon', 'digest', 'dplyr', 'fans', 'ggplot2', 'ggthemes', 'glue', 'gtable', and 'labeling'.