Assignment – 03

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3CS10

Q1) Code:

```
A <- c(23, 34,56,3,0,0)
B <- c('c','b','a')
print(A)
print(B)
```

Ans:

```
Console Terminal × Background Jobs ×

R R4.2.1 · ~/ 
> source("C:/Users/parth/OneDrive/Desktop/Sem 5/Data Science (UCS538)/Lab/Lab_03/Q1.R")

[1] 23 34 56 3 0 0

[1] "c" "b" "a"

> |
```

Q2) Code:

```
m <- 1
n <- 10
x <- seq(1,n)
y <- seq(m, n, by = 0.6)
print(x)
print(y)</pre>
```

Ans:

```
Console Terminal × Background Jobs ×

R 4.2.1 · ~/ 

> source("C:/Users/parth/OneDrive/Desktop/Sem 5/Data Science (UCS538)/Lab/Lab_03/Q2.R")

[1] 1 2 3 4 5 6 7 8 9 10

[1] 1.0 1.6 2.2 2.8 3.4 4.0 4.6 5.2 5.8 6.4 7.0 7.6 8.2 8.8 9.4 10.0

> |
```

Q3) Code:

```
d <-seq(1:50)
print(cut(d,breaks=10))
print(d)</pre>
```

Ans:

```
Console Terminal × Background Jobs ×

R 8.42.1 ~ / Ø

R 8.42.1 ~ / Ø

> source ("C: /users/parth/OneDrive/Desktop/sem 5/Data Science (UCS538)/Lab/Lab_03/q3.R")

[1] (0.951,5.9] (0.951,5.9] (0.951,5.9] (0.951,5.9] (0.951,5.9] (0.951,5.9) (0.951,5.9) (5.9,10.8] (5.9,10.8] (5.9,10.8] (5.9,10.8] (5.9,10.8] (10.8,15.7]

[13] (10.8,15.7] (10.8,15.7] (10.8,15.7] (15.7,20.6] (15.7,20.6] (15.7,20.6] (15.7,20.6] (15.7,20.6] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25.5] (20.6,25
```

Q4) Code:

```
for (x in 1:5) {
  print("3,4,5")
}
```

Ans:

Q5) Code:

```
print(runif(8, min=1, max=1000))
```

Ans:

```
Console Terminal × Background Jobs ×

R 4.2.1 · ~/ 

> source("C:/Users/parth/OneDrive/Desktop/Sem 5/Data Science (UCS538)/Lab/Lab_03/Q5.R")

[1] 947.5135 842.0531 257.1155 676.6999 214.8001 870.4414 393.2661 798.0053

> |
```

Q6) Code:

```
A <- c(23,34,56,3,0,0)

C <- c(2,3,4,5,6,7)

for(i in 1:length(A)){

   A[i] = A[i]+C[i]

}

print(A)
```

Ans:

```
Console Terminal × Background Jobs ×

R 4.2.1 · ~/ > source("C:/Users/parth/OneDrive/Desktop/Sem 5/Data Science (UCS538)/Lab/Lab_03/Q6.R")

[1] 25 37 60 8 6 7

> |
```

Q7) Code:

```
D<-c(6,7)
A <- c(25,37,60,8,6,7)
for(i in 1:length(D)){
   A[i] = A[i]+D[i]
}
print(A)</pre>
```

Ans:

```
Console Terminal × Background Jobs ×

R R4.2.1 · ~/ 
> source("C:/Users/parth/OneDrive/Desktop/Sem 5/Data Science (UCS538)/Lab/Lab_03/Q7.R")

[1] 31 44 60 8 6 7
> |
```

Q8) Code:

```
C <- c(2,3,4,5,6,7)
print(sqrt(C))
```

Ans:

```
Console Terminal × Background Jobs ×

R 4.2.1 · ~/ ≈

> source("C:/Users/parth/OneDrive/Desktop/Sem 5/Data Science (UCS538)/Lab/Lab_03/Q8.R")

[1] 1.414214 1.732051 2.000000 2.236068 2.449490 2.645751

> |
```

Q9) Code:

```
D<-c(6,7)
A <- c(25,37,60,8,6,7)
C <- c(2,3,4,5,6,7)
print(length(A))
print(length(D))
print(length(C))</pre>
```

Ans:

```
Console Terminal × Background Jobs ×

R 4.2.1 · ~/ 
> source("C:/Users/parth/OneDrive/Desktop/Sem 5/Data Science (UCS538)/Lab/Lab_03/Q9.R")

[1] 6
[1] 2
[1] 6
> |
```