

ASSIGNMENT 1
ITA044
STATISTICS WITH R PROGRAMMING
NAME-Vishwa.R
REG NO-192124161
DEPT-AI&DS
DATE-31/12/2022

1) Consider two vectors, x, y. $x=c(4,6,5,7,10,9,4,15)$ $y=c(0,10,1,8,2,3,4,1)$ What is the value of: $x*y$

INPUT:

$x=c(4,6,5,7,10,9,4,15); y=c(0,10,1,8,2,3,4,1)$

$z=x*y$

z

OUTPUT:

[1] 0 60 5 56 20 27 16 15

2) Consider two vectors, a, b $a=c(1,2,4,5,6)$ $b=c(3,2,4,1,9)$. What is the value of: $cbind(a,b)$.

INPUT:

$a=c(1,2,4,5,6); b=c(3,2,4,1,9)$

$cbind(a,b)$

OUTPUT:

ab

[1,] 1 3

[2,] 2 2

[3,] 4 4

[4,] 5 1

[5,] 6 9

3) Vector v is $c(1,2,3,4)$ and list x is $list(5:8)$, what is the output of $v*x[1]$?

INPUT:

$v<-c(1,2,3,4)$

$x<-list(5:8)$

$v*x[1]$

OUTPUT:

Error in $v * x[1]$: non-numeric argument to binary operator

Execution halted

4) Vector v is $c(1,2,3,4)$ and list x is $list(5:8)$, what is the output of $v*x[[1]]$?

INPUT:

$v<-c(1,2,3,4)$

$x<-list(5:8)$

$v*x[[1]]$

OUTPUT:

[1] 5 12 21 32

5) X is the vector $c(5,9.2,3,8.51,NA)$, What is the output of $mean(x)$?

INPUT:

$X=C(5,9.2,3,8.51,NA)$

$mean(X)$

OUTPUT:

Error in $C(5, 9.2, 3, 8.51, NA)$: object not interpretable as a factor



Execution halted

6) Give a function in R that replaces all missing values of a vector x with the sum of elements of that vector?

INPUT:

```
x<-c(1,2,4,NA,10,NA,5)
```

```
is.na(x)
```

```
which(is.na(x))
```

OUTPUT:

```
[1] FALSE FALSE FALSE  TRUE FALSE  TRUE FALSE
```

```
[1] 4 6
```

