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COURSE CODE: ITA0448

**ASSIGNMENT DAY 1**

**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**

**2Consider 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)**

**SYNTAX (1)**

X <- c(4,6,5,7,10,9,4,15)

Y <- c(0,10,1,8,2,3,4,1)

X\*Y

**O/P**

X\*Y

[1] 0 60 5 56 20 27 16 15

**SYNTAX (2)**

a <- c(1,2,4,5,6)

b <- c(3,2,4,1,9)

cbind(a,b)

**O/P**

## a b

## [1,] 1 3

## [2,] 2 2

## [3,] 4 4

## [4,] 5 1

## [5,] 6 9

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

**SYNTAX**

>c(1,2,3,4)

[1]1 2 3 4

>list(5:8)

>c(1,2,3,4)

[1]1 2 3 4

>list(5:8)

[[1]]

[1]5 6 7 8

**O/P**

>v\*x[1]

error: object 'v' not found

>

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

>c(1,2,3,4)

[1] 1 2 3 4

>list(5:8)

[[1]]

[1] 5 6 7 8

**O/P**

>v\*x[[1]]

error: object 'v' not found

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

**Syntax**

c(5,9.2,3,8.51,NA)

mean(x)

>c(5,9.2,3,8.51,NA)

[1] 5.00 9.2 3.00 8.51 NA

**O/P**

**>mean (x)**

[1] 7.5

**5. Give a function in R that replaces all missing values of a vector x with the sum of elements**

**of that vector?**

**Syntax**

a<-c(1,2,3,NA,4,5,NA,NA)

mean\_impute<-function(x){

ifelse(is.na(x),mean(x,na.rm = T),x)

**O/P**

mean\_impute(a)

1 2 3 3 4 5 3 3