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**ITA0448-STATISTICS AND R PROGRAMMING FOR VECTORIZED EXPRESSIONS**

**DAY1 ASSIGNMENT**

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)

program;

> x=c(4,6,5,7,10,9,4,15)

> y=c(0,10,1,8,2,3,4,1)

> x\*y

[1] 0 60 5 56 20 27 16 15

> a=c (1,2,4,5,6)

> b=c(3,2,4,1,9)

> cbind(a,b) 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]?

program;

> v=c(1,2,3,4)

> x=list(5:8)

> v\*x[1]

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

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

program;

> v=c(1,2,3,4)

> x=list(5:8)

>

> v\*x[[1]]

[1] 5 12 21 32

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

program;

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

> mean(x)

[1] NA

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

program;

function(x){x[is.na(x)]<-sum(x,na.rm = TRUE);x}