R PROGRAMMING

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**NAME : PRADEEP B**

**1 a). 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**

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

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

> print(x\*y)

[1] 0 60 5 56 20 27 16 15

**1 b). 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)

Source Code:

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]?**

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

x <- list(5:8)

print(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]]?**

Source Code:

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

x <-list(5:8)

print(v\*x[[1]])

>print(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)?**

Source Code:

v<-c(5,9.2,3,8.51,NA)

print(mean(v))

>print(mean(v))

[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?**

replace<-function(v){

ifelse(is.na(v),sum(v,na.rm = T),v)

}

replace(v=c(1,2,3,NA,5,6,NA,8))

>replace(v=c(1,2,3,NA,5,6,NA,8))

[1] 1 2 3 25 5 6 25 8