**Quiz-1**

Q 1 R was developed by Statisticians working at.

1) Harward varsity

2) Microsoft

3)Auckland varsity

4)John hopkins varisty

Q2 The definition of free software consist of four freedoms. Which is not the freedom that is part of definition?

1) The freedom to restrict access to the source code for the software.

2) The freedom to run any program

3) The freedom to prevent users from using the software for undersirable process

4)The freedom to sell software at any price.

5)The freedom to improve the program

6) The freedom to adapt the system

7)The freedom to redistribute the copies.

Q3. In R following are atomic data type (Except)

1) logical

2)character

3) array

4) list

5) matrix

6) complex

7) table

8) integer

9)numeric

10) data frame

Q4. If I execute the expression x<-4 in R, what is the class of object x as determined by the class() function?

Q5. What is the class of the object defined by x<- c(4, TRUE)

Q6. If I have two vectors x<- c(1,3,5) and y <-(3,2,10), what is produced by the expression rbind(x,y)

Q7 what is the key property of vectors in R is that

1) element of vector can be of different class

2)vector do not have attributes like dimension

3)element of vector should be of same class.

4) length of vector should be less than 32,768

Q7. I have vector x<- 1:5 and y<-4:3. What is produced by the expression x+y?

Q8. What is the result produced by expression x\*y where x<-1:4 and y<-1:2?

Q9. I have vector x<-c(24,14, 4,5, 13,12,10). Now I want to set all element of this vector that are greater than 10 to be equal to 5. What code should we write?

Q10. Create two matrix , x and y. Apply x+y, x\*y, x-y, x/y.