**Roll No : 48**

**Practical No : 3**

**Practical Name : Write program to demonstrate Loops & Vectorization of Missing Values.**

**#using for loop**

week<-c('Sunday',

'Monday',

'Tuesday',

'Wednesday',

'Thursday',

'Friday',

'saturday')

for(day in week)

{

print(day)

}

**#using while loop**

val=1

while(val<=5)

{

print(val)

val=val+1

}

**#using repeat loop**

val=1

repeat

{

print(val)

val=val+1

if(val>5)

{

break

}

}

**OUTPUT :**

**For-loop**

[1] "Sunday"

[1] "Monday"

[1] "Tuesday"

[1] "Wednesday"

[1] "Thursday"

[1] "Friday"

[1] "saturday"

**While-loop**

[1] 1

[1] 2

[1] 3

[1] 4

[1] 5

**Repeat-loop**

[1] 1

[1] 2

[1] 3

[1] 4

[1] 5

**#Vectorization Missing values:-**

x<-1:4

x\*2

y<-6:9

x+y

v<-c(1,2,4,NA,5,7,78,8,3,7,NA)

print(v)

v[!is.na(v)]

is.na(v)

which(is.na(v))

mean(v,na.rm=TRUE)

median(v,na.rm=TRUE)

**OUTPUT**

x<-1:4

> x\*2

[1] 2 4 6 8

>

> y<-6:9

> x+y

[1] 7 9 11 13

**[1] [**1,2,4,NA,5,7,78,8,3,7,NA**]**

**[1] [**1,2,4,5,7,78,8,3,7**]**

[1] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE

[9] FALSE FALSE TRUE

[1] 4 11

[1] 12.77778

[1] 5