**Assignment1**

**Task 1:**

1 . How many ways are there to call a function in R?

2. What is the Recycling of elements in a vector?

3. Give an example of recycling of elements.

**Task 2:**

1. What should be the output of the following Script?

v <- c( 2,5.5,6)

t <- c(8, 3, 4)

print(v%/%t)

2. You have 25 excel files with names as xx\_1.xlsx, xx\_2.xlsx,........xx\_25.xlsx in a dir.

Write a program to extract the contents of each excel sheet and make it one df.

solution

Task1

1) The ways of Calling a Function in R are :

Calling a Function with Argument Values (by position and by name)

Calling a Function without an Argument

Calling a Function with Default Argument

2) Recycling of element is when we have the vector of unequal length, the shorter vector are recycled i.e. element is added to complete the airthematic operation as equal elements are required for it, where in elements are added the are basically the repeated values.

3) Example of Recycling is:

V1<- c(3,7,4,1)

V2<- c(4,9)

Now we have to perform airthematic operation

We are adding here

add.result <- V1+V2

here we will have recycling of V2 as it has 2 elements only and V1 has 4 element

Print(add.result)

Result in console will be

(7,16,8,10)

Task2

1)

v <- c( 2,5.5,6)

t <- c(8, 3, 4)

print(v%/%t)

Result: (0,1,1)

2)

df1\_a<-data.frame()

abhi1= list.files(pattern = ".xlsx")

abhi1

for (i in 1:length(abhi1)) {

file\_AAAb=abhi1[i]

data\_1=read.xlsx(file\_AAAb,sheet = "1")

df1\_a = rbind(df1\_a, data\_1)

}

print(df1\_a)