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**DATA ANALYTICS WITH R, EXCEL and TABLEAU**

**Assignment – 1.2**

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

v <- c ( 2,5.5,6)

t <- c (8, 3, 4)

print (v%/%t)

**Answer:** [1] 0 1 1 #"%/% operator returns the base of division (%% returns only remainder)

1. 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.

**Answer:** First we need to create 25 files with names as above in one folder. Then set that folder as working directory.

instead of 25 files, i made only 10 files

library(readxl)

library(data.table)

file.list<-list.files(pattern = ".xlsx") #read the files in the directory

#data frame by column with column id

df.list<-lapply(file.list,read\_xlsx)

df1<-rbindlist(df.list,idcol=TRUE)

df1 #gives Data frame in console

#data frame by column with file name as column id

df.list<-sapply(file.list,read\_xlsx,simplify = FALSE)# in apply group, l is for 'list', s is for 'simplifying', t is for 'per type'

df2<-rbindlist(df.list,idcol = TRUE)

View(df2) #gives Data frame in script as separate r file

#data frame by row with file names

df3<-rbind.data.frame(df.list,idcol=TRUE)

View(df3)

1. If the above 25 files were csv files, what would be your script to read?

**Answer:** The pattern in the list.files function will change from .xlsx to .csv

#read\_xlsx changes to read.csv

## rest all remains same

## created only 2 csv files to explain

file.list<-list.files(pattern = ".csv") #read the files in the directory

#data frame by column with column id

df.list<-lapply(file.list,read.csv)

df1<-rbindlist(df.list,idcol=TRUE)

df1 #gives Data frame in console

#data frame by column with file name as column id

df.list<-sapply(file.list,read.csv,simplify = FALSE)# in apply group, l is for 'list', s is for 'simplifying', t is for 'per type'

df2<-rbindlist(df.list,idcol = TRUE)

View(df2) #gives Data frame in script as separate r file

#data frame by row with file names

df3<-rbind.data.frame(df.list,idcol=TRUE)

View(df3)