**Day 2 Assignments**

**Q 1. Enter marks of 10 students of 4 semesters in separate sheets and combine them**

**library(readxl)**

**Code:**

**//Opening the file connection**

excel\_sheets("C:/R-files/Day2/Assignment Day 2/marks\_record.xlsx")

//Creating sheet objects

year1<- read\_excel("C:/R-files/Day2/Assignment Day 2/marks\_record.xlsx", sheet=1)

year2<- read\_excel("C:/R-files/Day2/Assignment Day 2/marks\_record.xlsx", sheet=2)

year3<-read\_excel("C:/R-files/Day2/Assignment Day 2/marks\_record.xlsx", sheet=3)

year4<- read\_excel("C:/R-files/Day2/Assignment Day 2/marks\_record.xlsx", sheet=4)

//Combining sll the sheets

combined\_result<-cbind(year1,year2[-1],year3[-1],year4[-1])

combined\_result

summary(combined\_result)

dim(combined\_result)

//Opening file connection for reading only first 7 columns in sheet 2

year\_2<- read\_excel("C:/R-files/Day2/Assignment Day 2/marks\_record.xlsx", sheet=2,range="A1:B8")

year\_2

**Q 2 Find mean, median, mode of wt using mtcars and air quality dataset**

**Code:**

**For mtcars dataset:**

**//Calculating the mean**

m<-mean(mtcars$wt)

m

**//Calculating the median**

m1<-median(mtcars$wt)

m1

**//Calculating the mode using user defined function**

getmode<- function(v) {

uniqv = unique(v)

uniqv[which.max(tabulate(match(v,uniqv)))]

}

getmode(mtcars$wt)

**For airquality dataset:**

**//Calculating the mean**

m2<-mean(airquality$Temp)

m2

**//Calculating the median**

m3<-median(airquality$Temp)

m3

**//Calculating the mode using user defined function**

getmode<- function(v) {

uniqv = unique(v)

uniqv[which.max(tabulate(match(v,uniqv)))]

}

getmode(airquality$Temp)

**Q 3 Perform various operation on the given csv file**

**Code:**

**//Opening file connection**

a<-read.csv("C:/R-files/Day2/Assignment Day 2/record.csv")

a

summary(a)

str(a)

dim(a)

//Calculating mean

mean\_1<-mean(a$trans\_face\_val\_amt, na.rm=TRUE)

mean\_1

//Calculating median

median\_1<-median(a$trans\_face\_val\_amt, na.rm=TRUE)

median\_1

//Calculating mode

getmode(a$trans\_face\_val\_amt)