**Practical 2**

**Part A**

**Exercise 1**

Subset the vector, “mtcars[,2]“, for values greater than “15.0“.

**Exercise 2**

Subset the dataframe, “mtcars” for rows with “mpg” greater than , or equal to, 21 miles per gallon.

**Exercise 3**

Subset “mtcars” for rows wih “cyl” less than “6“, and “gear” exactly equal to “4“.

**Exercise 4**

Subset “mtcars” for rows greater than, or equal to, 21 miles per gallon. Also, select only the columns, “mpg” through “hp“.

**Exercise 5**

Subset “airquality” for “Ozone” greater than “28“, or “Temp” greater than “70“. Return the first five rows.(head(df,n))

**Exercise 6**

Subset “airquality” for “Ozone” greater than “28“, and “Temp” greater than “70“. Select the columns, “Ozone” and “Temp“. Return the first five rows.

**Exercise 7**

Subset the “airquality” dataframe for rows without “Ozone” values of “NA“.# is.na(col1) !is.na(Ozone)

**Exercise 8**

Subset “airquality” for “Ozone” greater than “100“. Select the columns “Ozone“, “Temp“, “Month” and “Day” only.

**Part B**

**Exercise 1**

The format of as.Date(x, ...) accepts character dates in the format, “YYYY-MM-DD”.

For the first exercise, use the c() function, and as.date(), to convert “2010-05-01” and “2004-03-15” to class “date” objects. Set a variable called, “Ex1Dts“.

**Exercise 2**

With as.Date(x, format, ...), the structure of the character dates are specified by the “format =” parameter.

For this exercise, use as.date(x, format, ...) to convert “07/19/98” to a date object within the variable, “Ex2Dt“.

**Exercise 3**

Convert “02/07/10“, “02/23/10“, “02/08/10“, “02/14/10“, and  
 “02/10/10“, into date objects within the variable, “Ex3Dts“.

**Exercise 4**

Find the mean of the date object variable “Ex3Dts“.

**Exercise 5**

Find the max date in “Ex3Dts”.

**Exercise 6**

Obtain the difference between the dates 28/Feb/2020 and 3/Mar/ 2020.(Leap year)

**Exercise 7**

Use the “format()“, and “Sys.Date()“, functions to print today’s date, with a format of “%B %d %Y“.

**Exercise 8”**

Obtain the current system time and check what will be the difference in time in GMT timezone for the same date and time. Use Sys.Time(), and as.POSIXct(“”,tz=””)