**SESSION – 2**

**ACD\_BART1\_Session\_2\_Assignment\_2\_Main**

**1. Read multiple JSON files into a directory to convert into a dataset.**

**I have files text1, text2, text3 in the directory JSON.**

>library(jsonlite)

>library(dplyr)

>ls <- list("E:\\Data Analytics \\Assignment\\JSON\\text1.json",

"E:\\Data Analytics \\Assignment\\JSON\\text2.json",

"E:\\Data Analytics \\Assignment\\JSON\\text3.json")

>for (i in ls){

z <- data.frame()

a <- read\_json(i, simplifyVector = TRUE)

z <- cbind(z,a)

}

View(a)

**2. Parse the following JSON into a data frame.**

js<-'{

"name": null, "release\_date\_local": null, "title": "3 (2011)",

"opening\_weekend\_take": 1234, "year": 2011,

"release\_date\_wide": "2011-09-16", "gross": 59954

}'

>>library(jsonlite)

json <- '[

{"name" : NULL,

"release\_date\_local" : NULL,

"title" : 3(2011),

"opening\_weekend\_take" : 1234,

"year" : 2011,

"release\_date\_wide" : [2011-09-16],

"gross" : 59954

}

]'

mydf <- fromJSON(json, simplifyVector = TRUE, simplifyDataFrame = simplifyVector)

mydf

**3. Write a script for Variable Binning using R.**

v <- 1:10

set.seed(10) #set.seed function makes the sample random values as fixed for future use

sample(v,100,replace = T) #generates random samples for 1:10, with replacement = True (numbers are repeated.)

range(v)

range(v)[1]:range(v)[2] #using range as BINS here. Bins can be anything.

set.seed(10)

cut(sample(v,100,replace=T),range(v)[1]:range(v)[2])

#in case we dont want to select bins ourself, use pretty function

pretty(v)

set.seed(10)

cut(sample(v,100,replace=T),pretty(v))

table(cut(sample(v,100,replace=T),pretty(v)))# gives count in each bin,similar to pivot table

#to change the number of bins, numbers can be given in pretty function

table(cut(sample(v,100,replace=T),pretty(v,2)))