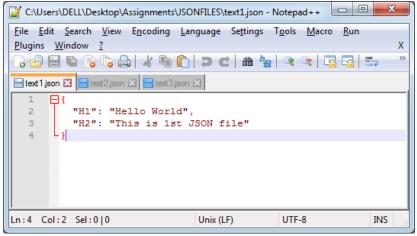
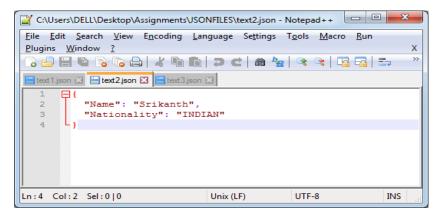
SESSION 2: Introduction to working with R

Assignment 2

1. Read multiple json files into a working directory for further converting into a dataset. I have files text1, text2, text3 in the directory json.

Answer: Created these 3 json files under "C:\Users\DELL\Desktop\Assignments\JSONFILES" folder





```
C:\Users\DELL\Desktop\Assignments\JSONFILES\text3.json - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run
 3 🖶 🗎 🖺 🥫 🕒 🕹 🖈 🗈 🗗 ⊃ c | # 🧏 🗷 🤫 🥞 🖫 🚍
 📑 text1.json 🗵 📙 text2.json 🗵 🗎 text3.json 🗵
       日(
           "students":[{
           "Name": "Raju",
   3
           "Age": "23"
   5
           "Name": "Shankar",
           "Age": "25"
   8
        - } ]
   9
  10
Ln:1 Col:1 Sel:0|0
                                  Unix (LF)
                                                 UTF-8
```

Installed the package rison

Set the working directory to the folder path where all the Json files are present

setwd("C://Users//DELL//Desktop//Assignments//JSONFILES")

Stored all the json files name to vector x using list.files function passing "*.json" as the pattern

x <-list.files(pattern="*.json")

using lapply function we are storing the content of json file one by one in dataframe I

I<-lapply(x,function(x) fromJSON(file=x))</pre>

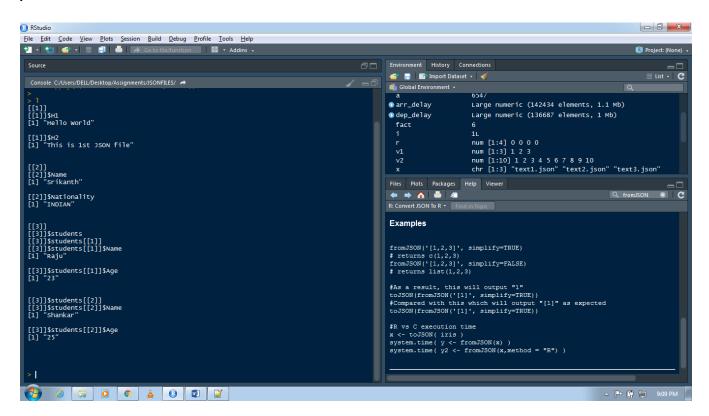
install.packages("rjson")
library(rjson)

setwd("C://Users//DELL//Desktop//Assignments//JSONFILES")

x <-list.files(pattern="*.json")

I<-lapply(x,function(x) fromJSON(file=x))</pre>

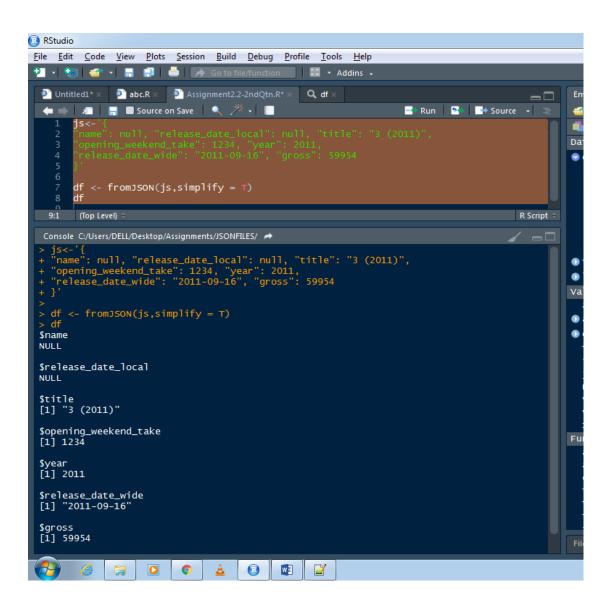
ı



```
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
}'

Answer:
js<-'{
"name": null, "release_date_local": null, "title": "3 (2011)",
"opening_weekend_take": 1234, "year": 2011,
"release_date_wide": "2011-09-16", "gross": 59954
}'

df <- fromJSON(js)
df
```



3. Write a script for variable binning using R.

Answer: Bins are create on continuous and categorical variables

Let's create a vector age as below

age <- c(4,7,5,9,1,10,15,18,19,3,16,10,16,12,22,2,23,16,17)

Vector age contains of various elements of different age group.

To group them or to categorize them under certain range we use cut function cut(age, c(1,5,10,15,25)

```
> cut(age,c(1,5,10,15,25))
[1] (1,5] (5,10] (1,5] (5,10] <NA> (5,10] (10,15] (15,25] (15,25] (1,5]
[11] (15,25] (5,10] (15,25] (10,15] (15,25] (1,5] (15,25] (15,25]
Levels: (1,5] (5,10] (10,15] (15,25]
```

Here we are grouping the vector contents into below bin or group or categories

[1,5]

[5,10]

[10,15]

[15,25]

So the above vector values fall under these bins using the data.frame() along with cut()

```
age <- c(4,7,5,9,1,10,15,18,19,3,16,10,16,12,22,2,23,16,17)
data.frame(age, bin=cut(age, c(1,5,10,15,25), include.lowest=TRUE))
```

Here we can see each age is falling into respecting bin.