Assignments for session on “INTRODUCTION ON R”

1. Reading multiple JSON files into one dataframe

```
#Run the required library packages
library(purrr)
library(tidyverse)
library(jsonlite)

# Make a consolidated file for all JSON files in the desired folder
combined_files <- dir("C:/Users/sarang_dani/Desktop/R/JASON/", pattern = "*.json")

data <- combined_files %>%
  map_df(~fromJSON(file.path("C:/Users/sarang_dani/Desktop/R/JASON/", .), flatten = TRUE))
map_df
```

2. Parsing the JSON into a dataframe

```
#Run the required library packages

install.packages("RJSONIO")
library(RJSONIO)

#Fetch the JSON file
json_file <- fromJSON("C:/Users/sarang_dani/Desktop/R/JASON/js.json")

#Unlist the json file
json_file <- lapply(jason_file, function(x) {
  x[sapply(x, is.null)] <- NA
  unlist(x)
})

#Join the unlisted columns in one dataframe
df <- as.data.frame(do.call("cbind",json_file))
```

3. Variable Binning using R

Let’s say we have CSV file called “grades” having “final” as one of the columns having marks of students.

Binning is nothing but the bucketing of this “final” variable.And these buckets can be customized using “cut”.

```
grades$final_cut <- cut(grades$final,breaks = seq(50,80,10), labels = c("50 to 60","60 to 70","70 to 80"))
head(grades)
```