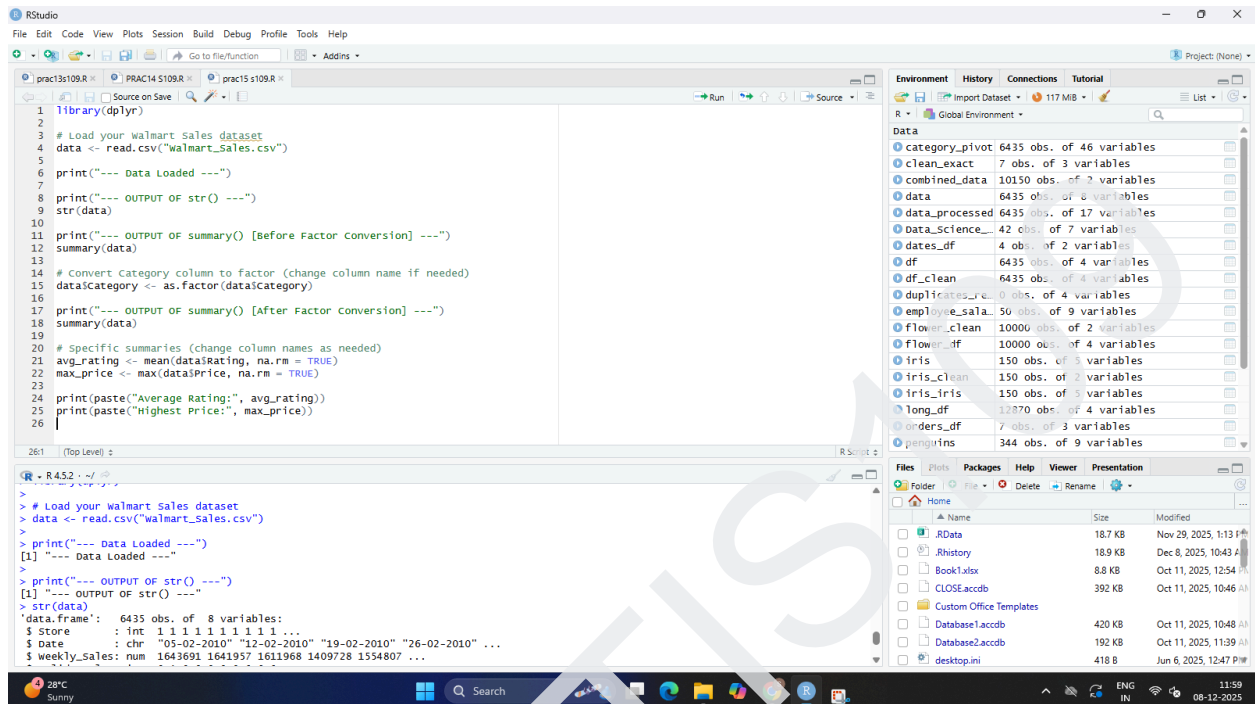


SHETH L.U.J AND M.V COLLEGE
PRACTICAL NO .15
SUBJECT - DATA ANALYSIS

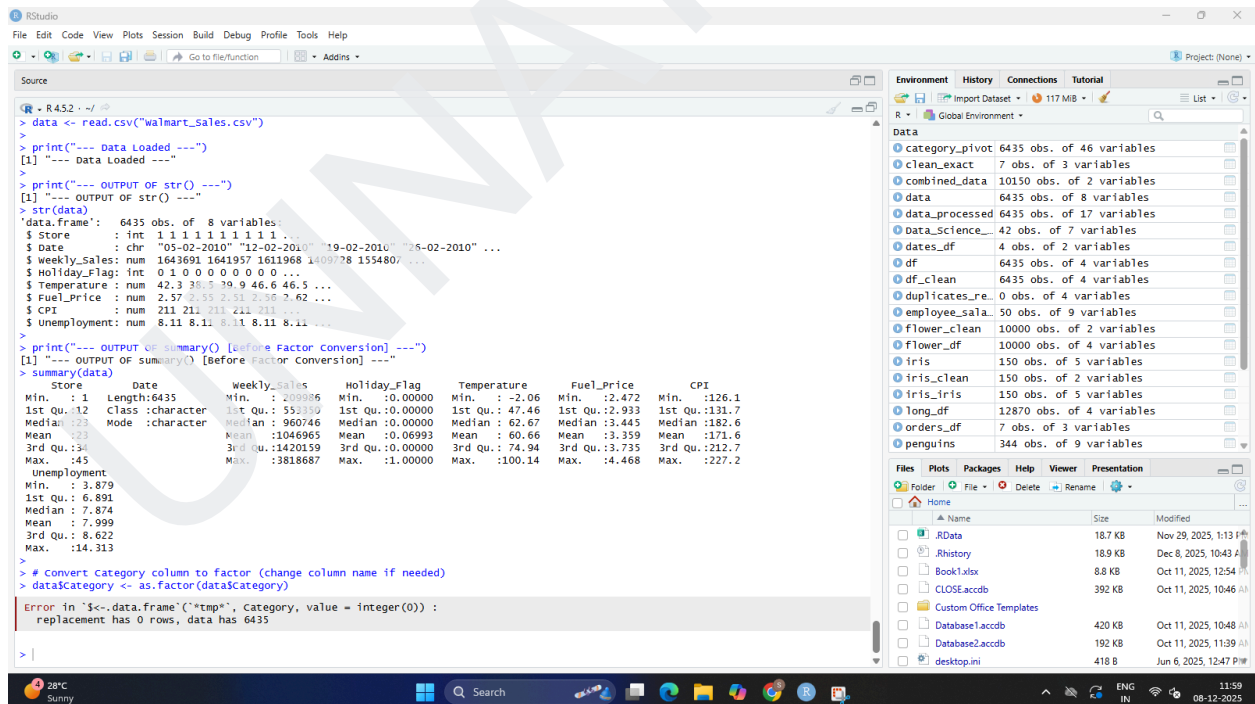
Aim - 15. Generating basic summaries using str() or summary() (R).

Input -



```
1 library(dplyr)
2
3 # Load your walmart Sales dataset
4 data <- read.csv("walmart_sales.csv")
5
6 print("---- Data Loaded ----")
7
8 print("---- OUTPUT OF str() ----")
9 str(data)
10
11 print("---- OUTPUT OF summary() [Before Factor Conversion] ----")
12 summary(data)
13
14 # Convert Category column to factor (change column name if needed)
15 data$category <- as.factor(data$category)
16
17 print("---- OUTPUT OF summary() [After Factor Conversion] ----")
18 summary(data)
19
20 # Specific summaries (change column names as needed)
21 avg_rating <- mean(data$rating, na.rm = TRUE)
22 max_price <- max(data$price, na.rm = TRUE)
23
24 print(paste("Average Rating:", avg_rating))
25 print(paste("Highest Price:", max_price))
26
```

OUTPUT -



```
> data <- read.csv("walmart_sales.csv")
> print("---- Data Loaded ----")
[1] "---- Data Loaded ----"
> print("---- OUTPUT OF str() ----")
[1] "---- OUTPUT OF str() ----"
> str(data)
'data.frame':   6435 obs. of  8 variables:
 $ Store       : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Date        : chr  "05-02-2010" "12-02-2010" "19-02-2010" "26-02-2010" ...
 $ weekly_sales: num  1643691 1641957 1611968 1409728 1554807 ...
 $ Holiday_Flag: int   0 1 0 0 0 0 0 0 0 0 ...
 $ Temperature : num  42.3 38.5 39.9 46.6 46.5 ...
 $ Fuel_Price   : num  2.57 2.55 2.31 2.36 2.62 ...
 $ CPI          : num  211 211 211 211 211 ...
 $ Unemployment: num   8.11 8.11 8.11 8.11 8.11 ...

> print("---- OUTPUT OF summary() [Before Factor conversion] ----")
[1] "---- OUTPUT OF summary() [Before Factor conversion] ----"
> summary(data)
  Store      Date      weekly_sales  Holiday_Flag  Temperature    Fuel_Price      CPI
Min.   :1   Length:6435   Min.    : 209906   Min.    :0.00000   Min.    : -2.06   Min.    :2.472   Min.    :126.1
1st Qu.:12   Class :character 1st Qu.: 553399   1st Qu.:0.00000   1st Qu.: 47.46   1st Qu.:2.933   1st Qu.:131.7
Median :23   Mode  :character Median : 960746   Median :0.00000   Median : 62.67   Median :3.445   Median :182.6
Mean   :23               Mean  :1046965   Mean  :0.06993   Mean  : 60.66   Mean  :3.359   Mean  :171.6
3rd Qu.:34               3rd Qu.:1420159 3rd Qu.:0.00000 3rd Qu.: 74.94   3rd Qu.:3.735   3rd Qu.:212.7
Max.   :45               Max.   :3818687   Max.   :1.00000   Max.   :100.14   Max.   :4.468   Max.   :227.2

  Unemployment
Min.   : 3.879
1st Qu.: 6.891
Median : 7.874
Mean   : 7.999
3rd Qu.: 8.622
Max.   :14.313

> # Convert category column to factor (change column name if needed)
> data$category <- as.factor(data$category)
Error in `as.data.frame`(`*tmp*`, category, value = integer(0)) :
  replacement has 0 rows, data has 6435
> |
```

NAME - UNNATI RATHOD
ROLL NO S109