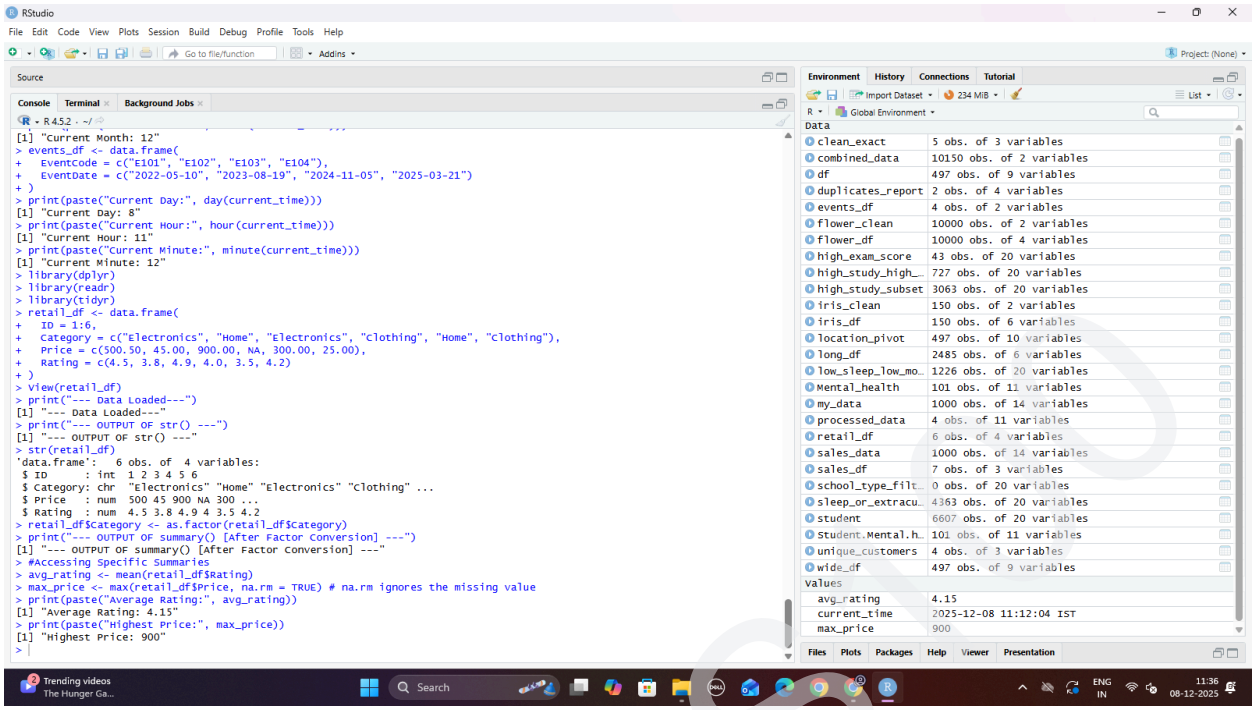
**PRACTICAL NO :- 15**

**AIM :-** Generating basic summaries using str() or summary() (R).

**CODE :-**

```
library(dplyr)
library(readr)
library(tidyr)

retail_df <- data.frame(
  ID = 1:6,
  Category = c("Electronics", "Home", "Electronics", "Clothing", "Home", "Clothing"),
  Price = c(500.50, 45.00, 900.00, NA, 300.00, 25.00),
  Rating = c(4.5, 3.8, 4.9, 4.0, 3.5, 4.2)
)
print("--- Data Loaded---")

#USING summary() (Statistical Summary)

print("--- OUTPUT OF str() ---")
str(retail_df)

#IMPROVING summary() WITH FACTORS

retail_df$Category <- as.factor(retail_df$Category)
print("--- OUTPUT OF summary() [After Factor Conversion] ---")

#Accessing Specific Summaries
avg_rating <- mean(retail_df$Rating)
max_price <- max(retail_df$Price, na.rm = TRUE)
print(paste("Average Rating:", avg_rating))
print(paste("Highest Price:", max_price))
```

# MVLU COLLEGE.






NANDINI PANDIT S100
DATA ANALYSIS WITH SAS/SPSS/R.