SHETH L.U.J AND SIR M.V COLLEGE
PRACTICAL NO:15

AIM: Reshaping data using pivot_longer()/pivot_wider() (R).

INPUT:

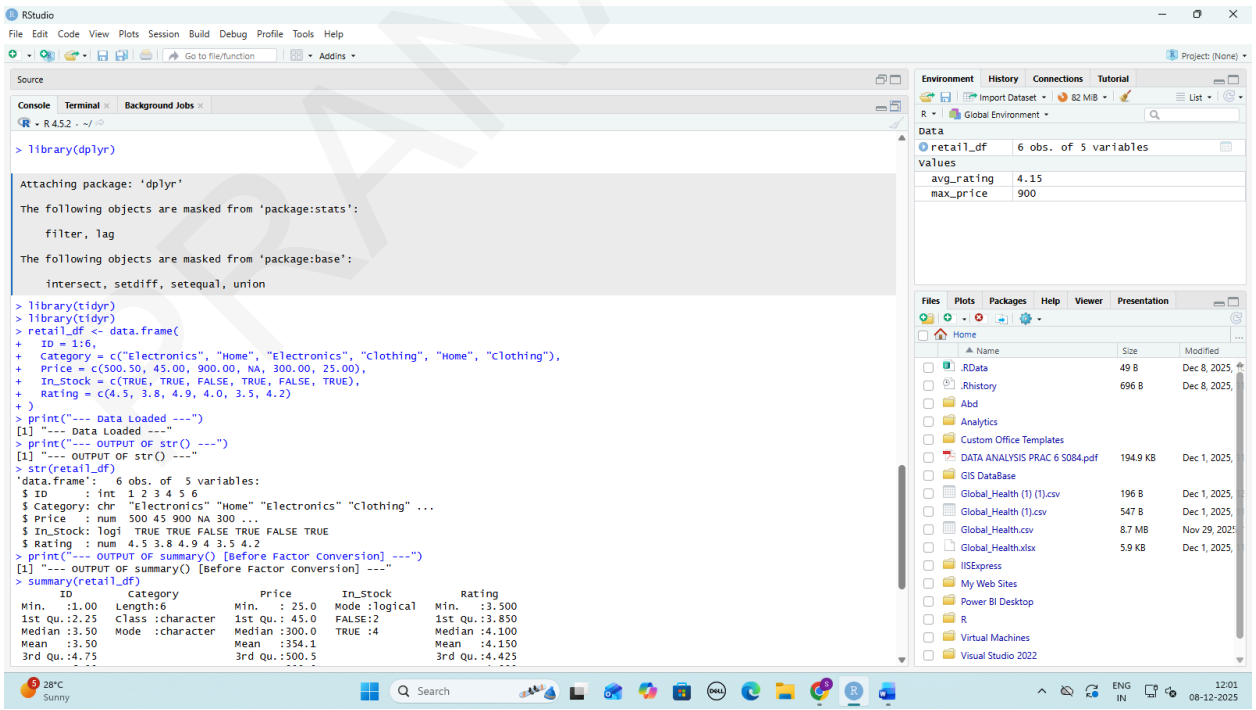
```
library(dplyr)

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),

  In_Stock = c(TRUE, TRUE, FALSE, TRUE, FALSE, TRUE),

  Rating = c(4.5, 3.8, 4.9, 4.0, 3.5, 4.2)

)


print("--- Data Loaded ---")


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

str(retail_df)


print("--- OUTPUT OF summary() [Before Factor Conversion] ---")

summary(retail_df)
```

SHETH L.U.J AND SIR M.V COLLEGE

PRACTICAL NO:15

```
retail_df$Category <- as.factor(retail_df$Category)


print("--- OUTPUT OF summary() [After Factor Conversion] ---")

summary(retail_df)


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))
```

OUTPUT:



SHETH L.U.J AND SIR M.V COLLEGE

PRACTICAL NO:15