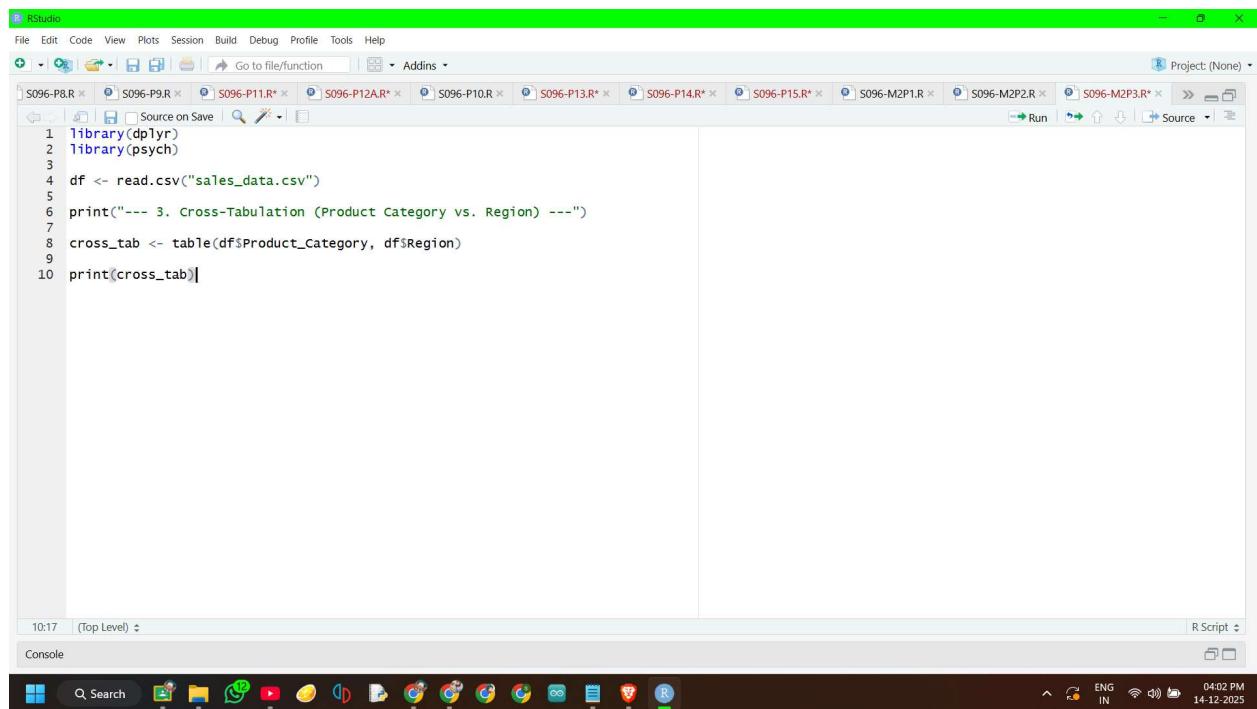


**SHETH L.U.J. AND SIR M.V. COLLEGE**  
**DATA ANALYSIS WITH R**

**AIM:** Creating cross-tabulations and two-way tables using table() (R).

**CODE:**

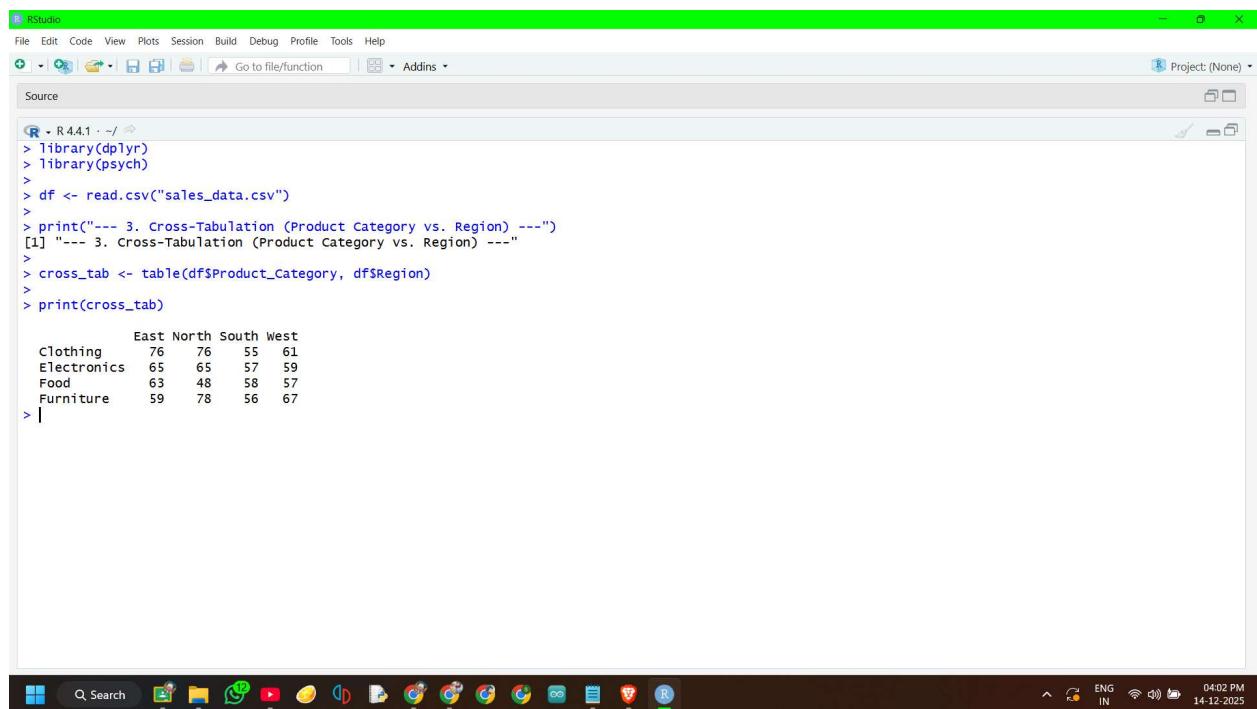


The screenshot shows the RStudio interface. The top menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help, and Addins. The top toolbar has icons for file operations like Open, Save, and Run. A tab bar at the top shows multiple R script files. The main workspace contains the following R code:

```
1 library(dplyr)
2 library(psych)
3
4 df <- read.csv("sales_data.csv")
5
6 print("---- 3. Cross-Tabulation (Product Category vs. Region) ---")
7
8 cross_tab <- table(df$Product_Category, df$Region)
9
10 print(cross_tab)
```

The status bar at the bottom shows the time as 10:17 and the script type as R Script.

**OUTPUT:**



The screenshot shows the RStudio interface with the same menu and toolbar as the previous screen. The workspace now displays the output of the R code. The console window shows the R session starting with R 4.4.1 and the command prompt (>). The output includes the printed text "---- 3. Cross-Tabulation (Product Category vs. Region) ---" and the resulting cross-tabulation table:

```
> library(dplyr)
> library(psych)
>
> df <- read.csv("sales_data.csv")
>
> print("---- 3. Cross-Tabulation (Product Category vs. Region) ---")
[1] "---- 3. Cross-Tabulation (Product Category vs. Region) ---"
>
> cross_tab <- table(df$Product_Category, df$Region)
>
> print(cross_tab)
```

	East	North	South	West
Clothing	76	76	55	61
Electronics	65	65	57	59
Food	63	48	58	57
Furniture	59	78	56	67