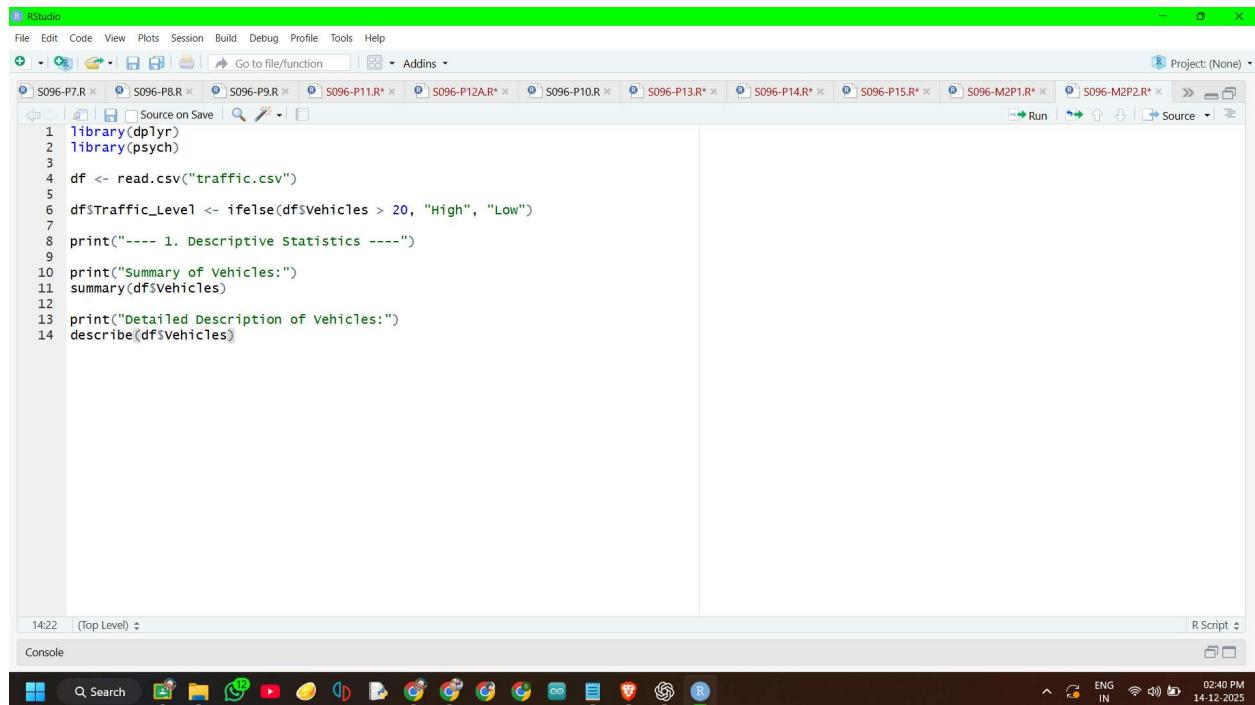


SHETH L.U.J. AND SIR M.V. COLLEGE
DATA ANALYSIS WITH R

AIM: Generating descriptive statistics using `summary()` or `describe()`

CODE:

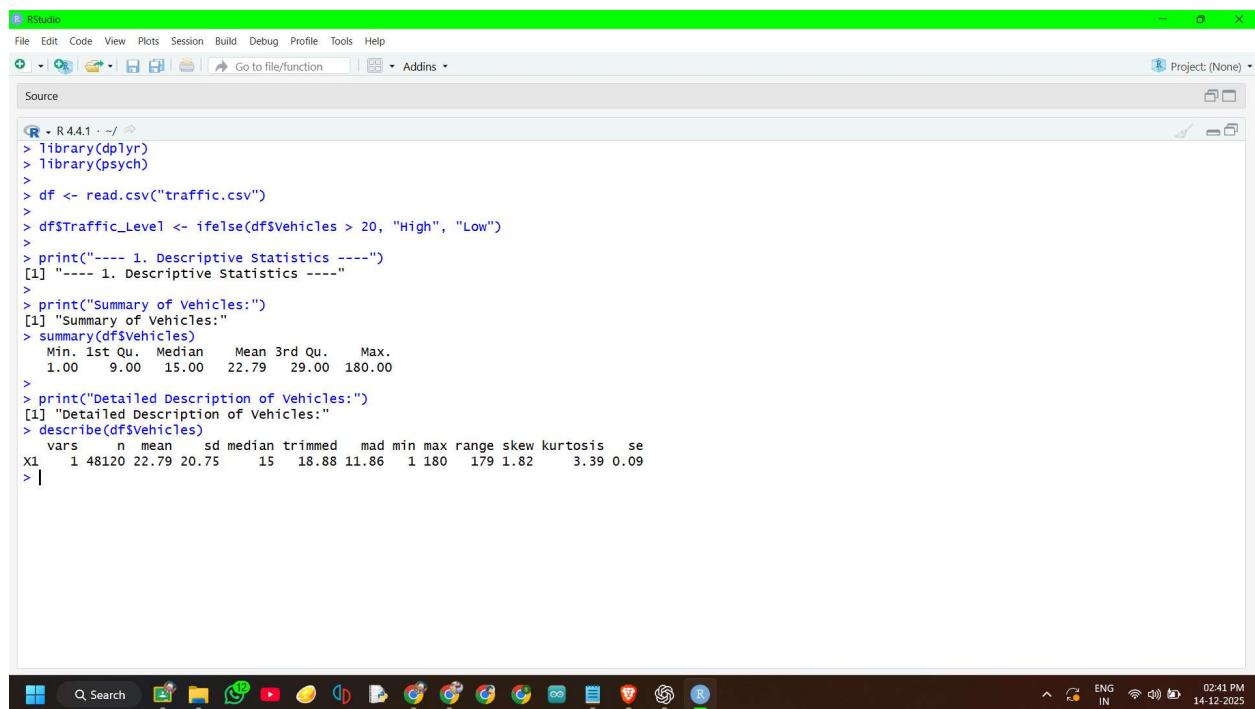


The screenshot shows the RStudio interface. The top menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help, and Addins. The title bar says "RStudio". The main workspace shows the following R code:

```
1 library(dplyr)
2 library(psych)
3
4 df <- read.csv("traffic.csv")
5
6 df$Traffic_Level <- ifelse(df$Vehicles > 20, "High", "Low")
7
8 print("---- 1. Descriptive Statistics ----")
9
10 print("Summary of Vehicles:")
11 summary(df$Vehicles)
12
13 print("Detailed Description of Vehicles:")
14 describe(df$Vehicles)
```

The status bar at the bottom indicates "14:22 (Top Level)" and "R Script".

OUTPUT:



The screenshot shows the RStudio interface with the same menu and title bar as the previous screenshot. The workspace displays the output of the R code:

```
> library(dplyr)
> library(psych)
>
> df <- read.csv("traffic.csv")
>
> df$Traffic_Level <- ifelse(df$Vehicles > 20, "High", "Low")
>
> print("---- 1. Descriptive Statistics ----")
[1] "---- 1. Descriptive Statistics ----"
>
> print("Summary of Vehicles:")
[1] "Summary of Vehicles:"
> summary(df$Vehicles)
   Min. 1st Qu. Median Mean 3rd Qu. Max.
1.00    9.00   15.00 22.79   29.00 180.00
>
> print("Detailed Description of Vehicles:")
[1] "Detailed Description of Vehicles:"
> describe(df$Vehicles)
   vars   n  mean    sd median trimmed  mad min max range skew kurtosis    se
X1     1 48120 22.79 20.75      15 18.88 11.86    1 180 179 1.82     3.39 0.09
> |
```

The status bar at the bottom indicates "02:40 PM 14-12-2025".