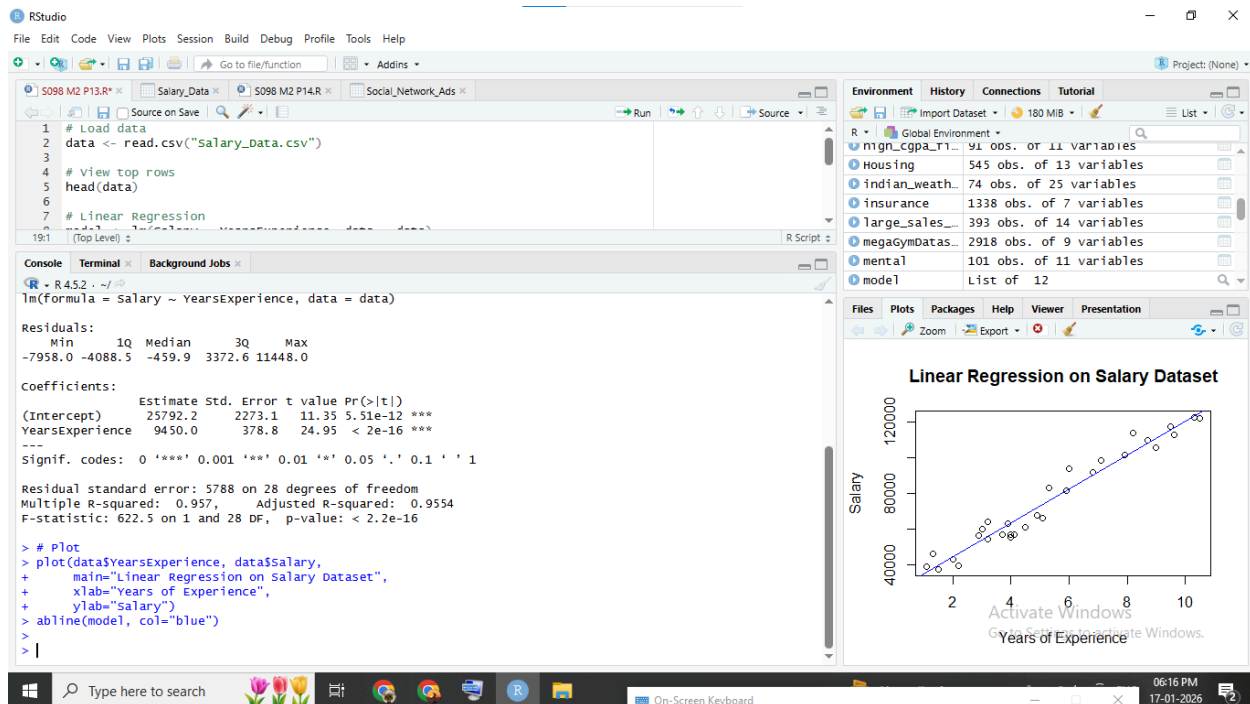
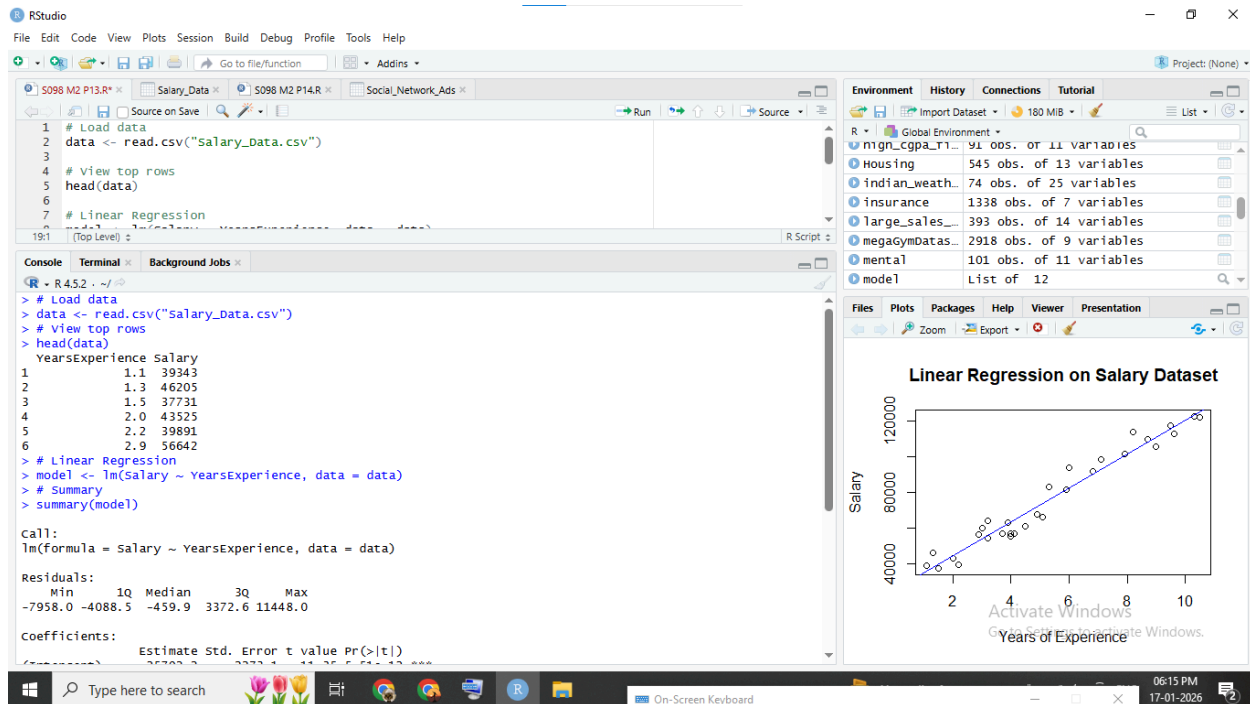


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Subject:-Data Analysis with SAS / SPSS /R

Aim:- 13.Performing linear regression analysis using lm() (R).

Output:-

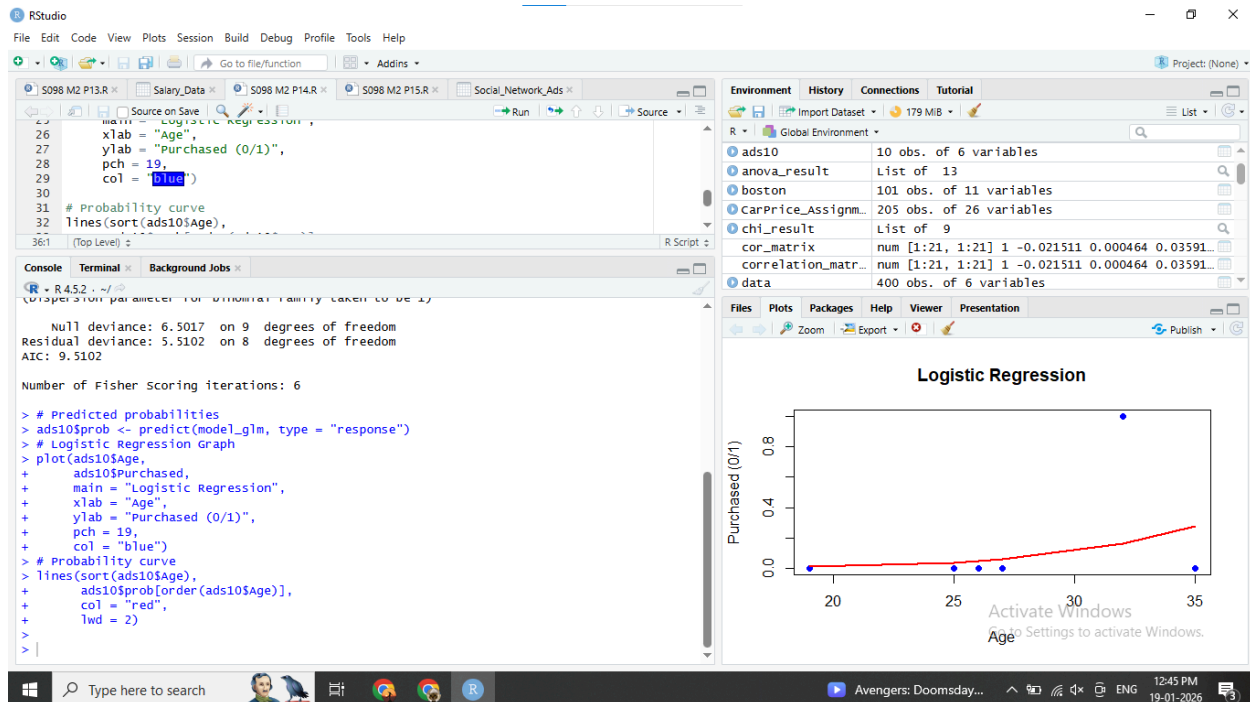
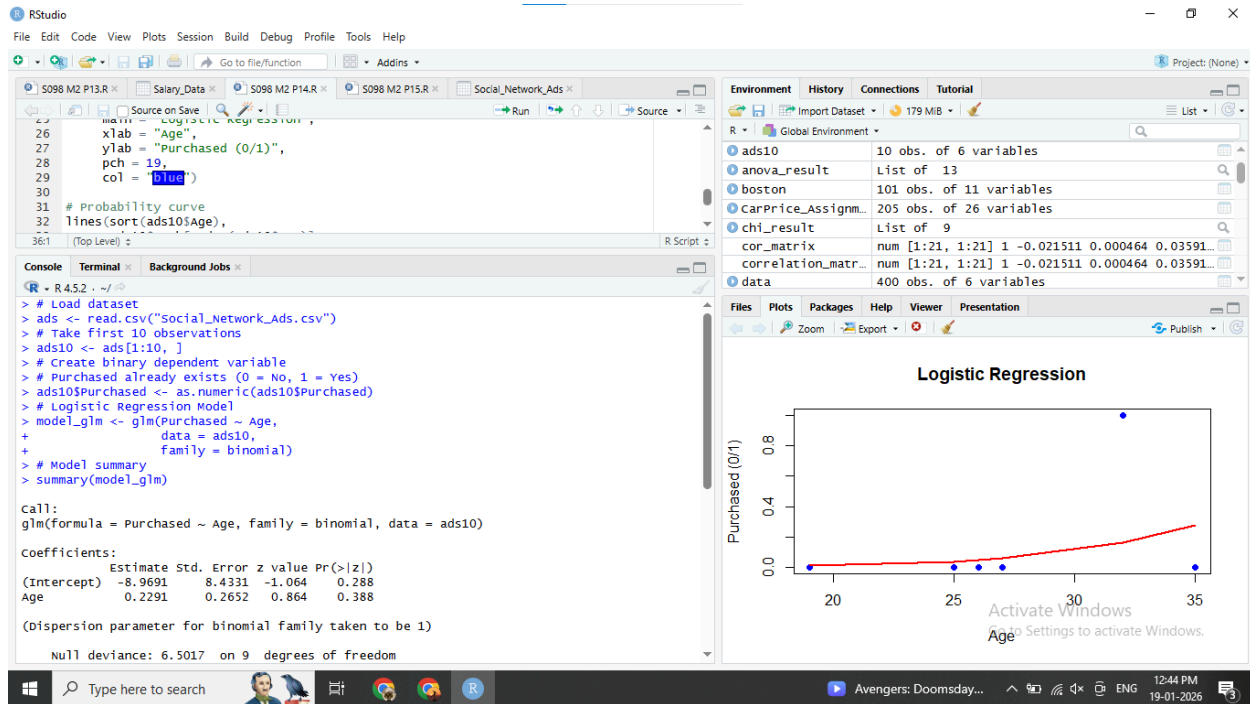


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Subject:-Data Analysis with SAS / SPSS /R

14 Performing logistic regression using glm() (R).

Output:-



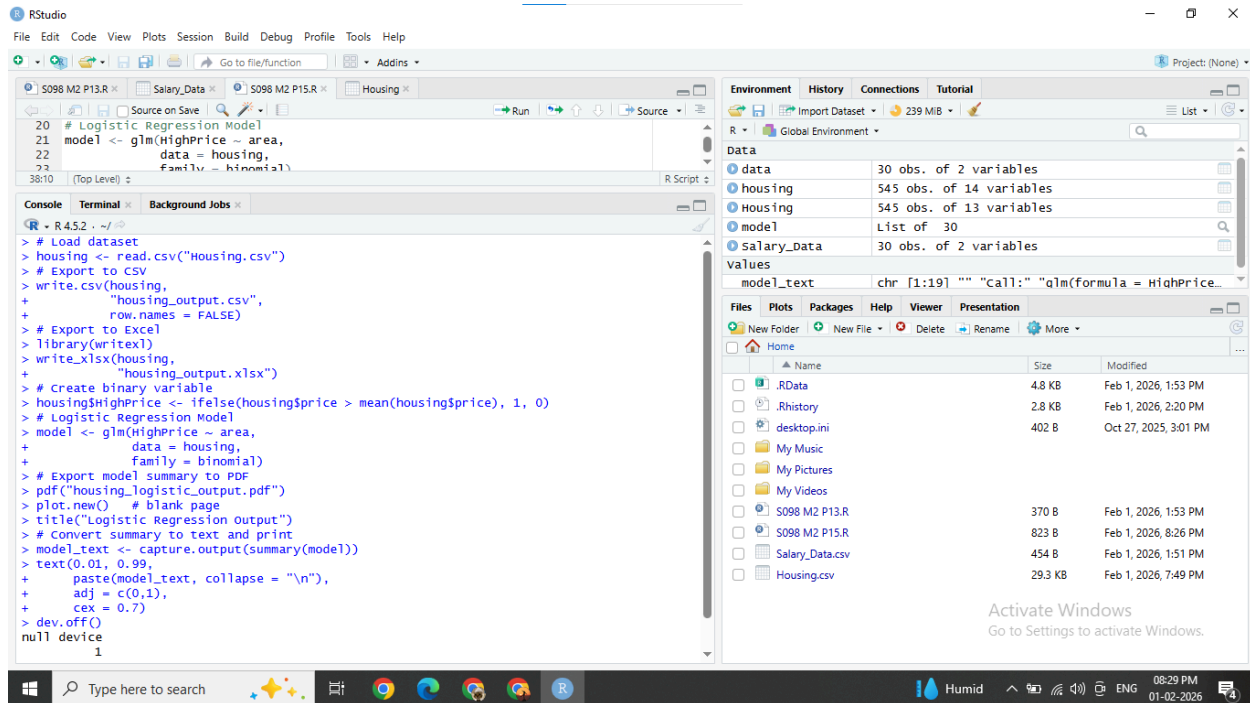
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15 Exporting results into external files (Excel, CSV, PDF) using write.csv() and writexl (R).

Output:-



The screenshot shows the RStudio interface. The console pane displays the following R code and its output:

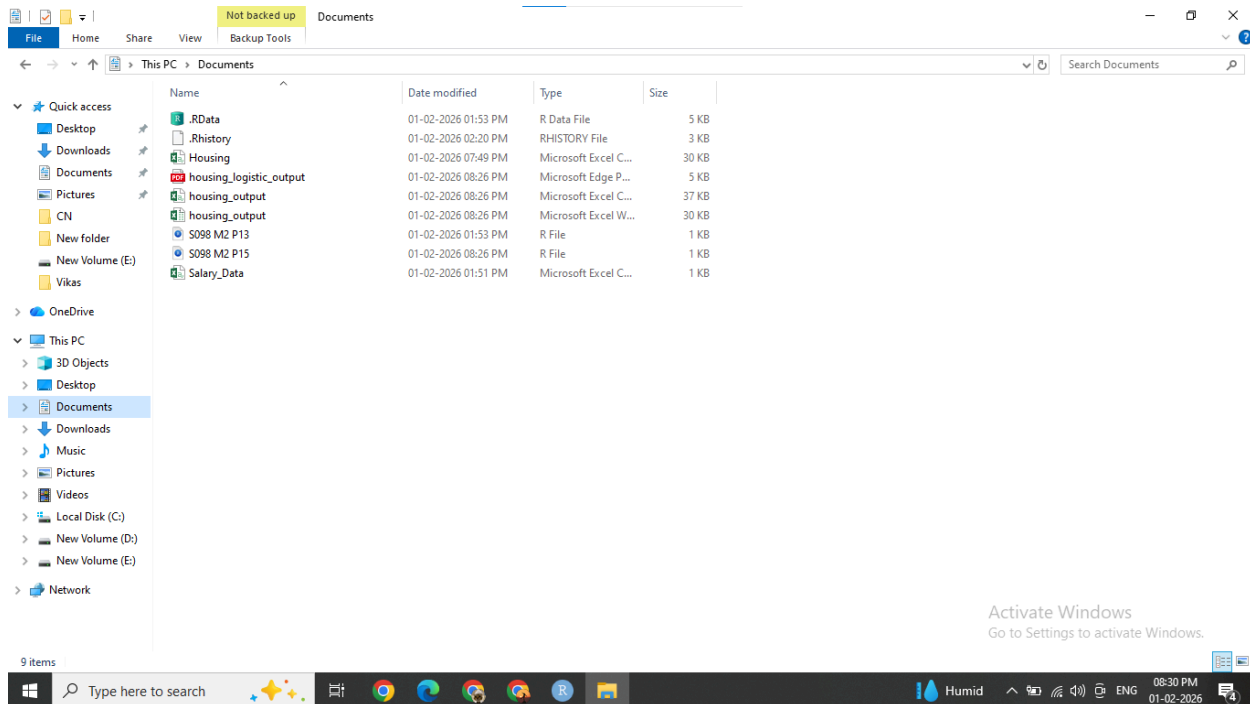
```
# Load dataset
> housing <- read.csv("Housing.csv")
# Export to CSV
> write.csv(housing,
+           "housing_output.csv",
+           row.names = FALSE)
# Export to Excel
> library(writexl)
> write_xlsx(housing,
+            "housing_output.xlsx")
# Create binary variable
> housing$highPrice <- ifelse(housing$price > mean(housing$price), 1, 0)
# Logistic Regression Model
> model <- glm(highPrice ~ area,
+              data = housing,
+              family = binomial)
# Export model summary to PDF
> pdf("housing_logistic_output.pdf")
> plot.new() # blank page
> title("Logistic Regression output")
# Convert summary to text and print
> model_text <- capture.output(summary(model))
> text(0.01, 0.99,
+      paste(model_text, collapse = "\n"),
+      adj = c(0.1),
+      cex = 0.7)
> dev.off()
null device
1
```

The Environment pane on the right shows the following objects:

Object	Details
data	30 obs. of 2 variables
housing	545 obs. of 14 variables
Housing	545 obs. of 13 variables
model	List of 30
salary_data	30 obs. of 2 variables

The Files pane shows the following files:

Name	Size	Modified
.RData	4.8 KB	Feb 1, 2026, 1:53 PM
.Rhistory	2.8 KB	Feb 1, 2026, 2:20 PM
desktop.ini	402 B	Oct 27, 2025, 3:01 PM
My Music		
My Pictures		
My Videos		
S098 M2 P13.R	370 B	Feb 1, 2026, 1:53 PM
S098 M2 P15.R	823 B	Feb 1, 2026, 8:26 PM
Salary_Data.csv	454 B	Feb 1, 2026, 1:51 PM
Housing.csv	293 KB	Feb 1, 2026, 7:49 PM



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