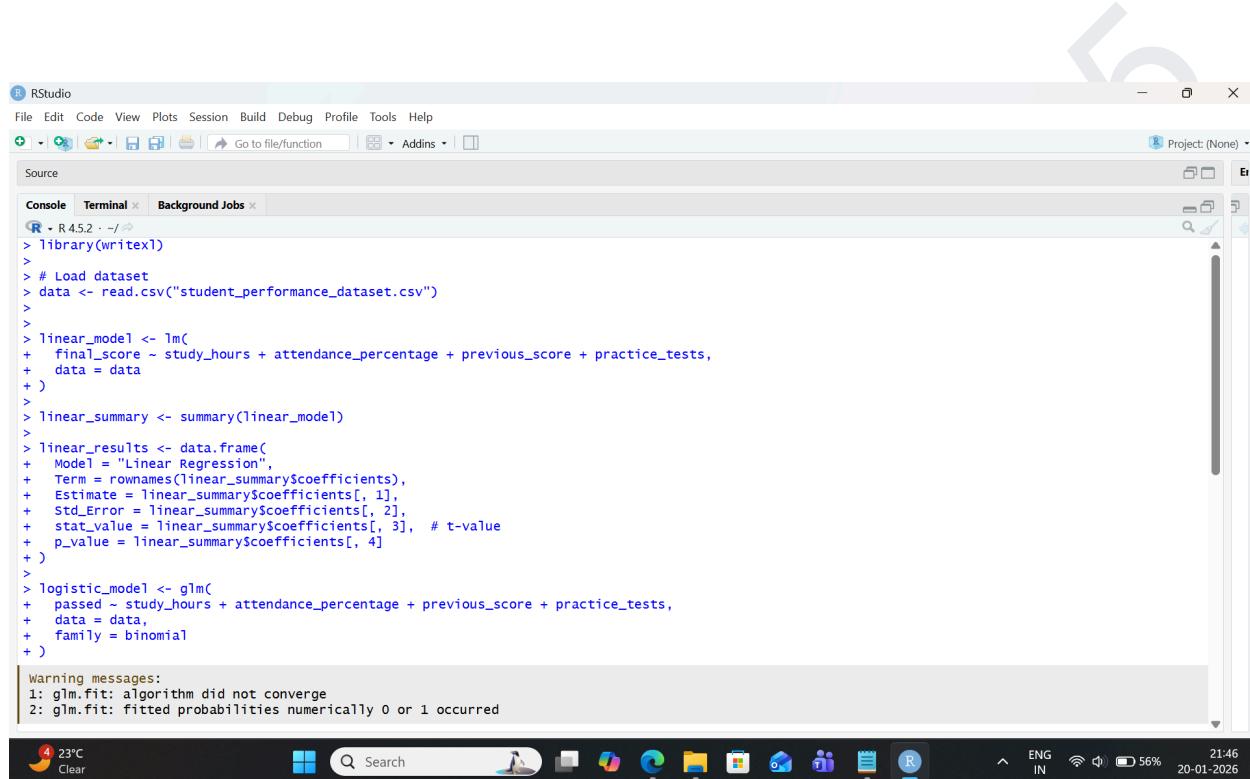


Practical No 15 Module II

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

Output :



The screenshot shows the RStudio interface with the following R code in the Console tab:

```
R - R 4.5.2 · ~/R
> library(writexl)
> # Load dataset
> data <- read.csv("student_performance_dataset.csv")
>
> linear_model <- lm(
+   final_score ~ study_hours + attendance_percentage + previous_score + practice_tests,
+   data = data
+ )
> linear_summary <- summary(linear_model)
> linear_results <- data.frame(
+   Model = "Linear Regression",
+   Term = rownames(linear_summary$coefficients),
+   Estimate = linear_summary$coefficients[, 1],
+   Std_Error = linear_summary$coefficients[, 2],
+   stat_value = linear_summary$coefficients[, 3], # t-value
+   p_value = linear_summary$coefficients[, 4]
+ )
>
> logistic_model <- glm(
+   passed ~ study_hours + attendance_percentage + previous_score + practice_tests,
+   data = data,
+   family = binomial
+ )
Warning messages:
1: glm.fit: algorithm did not converge
2: glm.fit: fitted probabilities numerically 0 or 1 occurred
```

The RStudio interface includes a menu bar (File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help), a toolbar with various icons, and a status bar at the bottom showing system information like battery level (56%) and date (20-01-2026).

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SUBJECT : R Programming



RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
Console Terminal Background Jobs
R 4.5.2 - ~/
> logistic_results <- data.frame(
+ Model = "Logistic Regression",
+ Term = rownames(logistic_summary\$coefficients),
+ Estimate = logistic_summary\$coefficients[, 1],
+ Std_Error = logistic_summary\$coefficients[, 2],
+ stat_value = logistic_summary\$coefficients[, 3], # z-value
+ p_value = logistic_summary\$coefficients[, 4]
)
>
> final_results <- rbind(
+ linear_results,
+ logistic_results
)
> # -----
> # EXPORT RESULTS
> # -----
> write.csv(
+ final_results,
+ "calculations.csv",
+ row.names = FALSE
)
>
> write_xlsx(
+ final_results,
+ "calculations.xlsx"
)
>
> print("Linear and Logistic Regression calculations exported successfully.")
[1] "Linear and Logistic Regression calculations exported successfully."
> |