

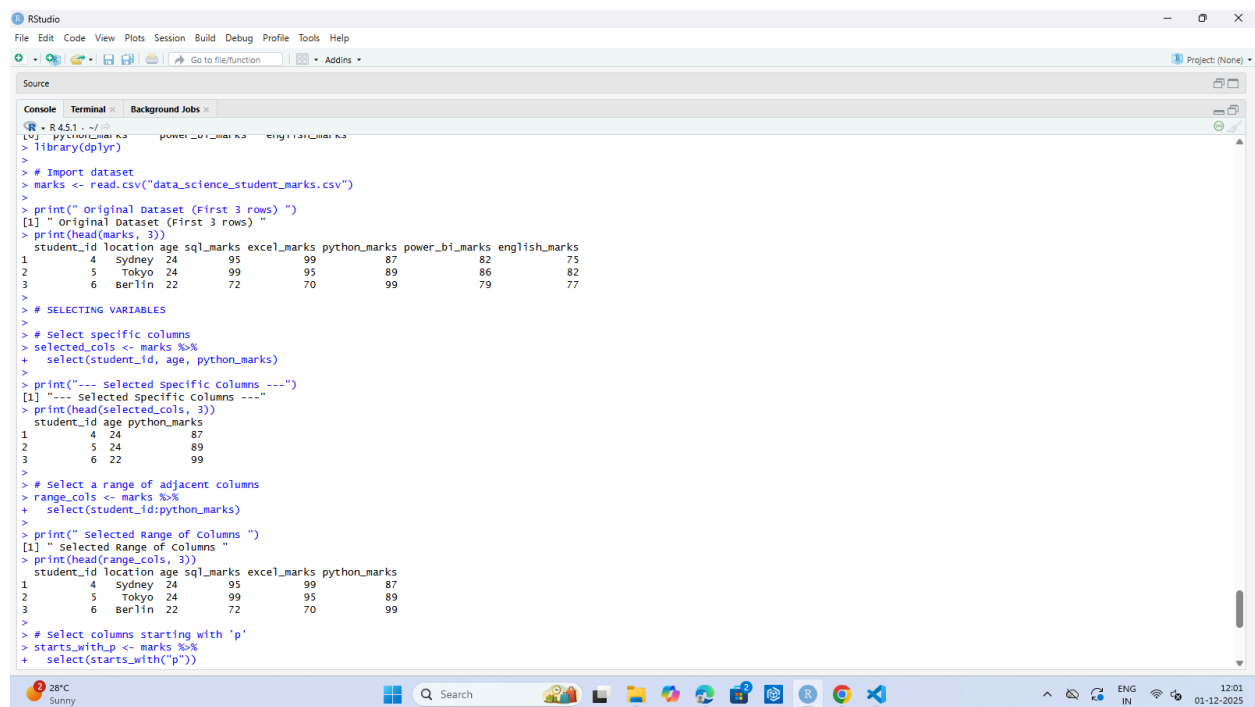
# SHETH L.U.J. AND SIR M.V. COLLEGE OF ARTS SCIENCE AND COMMERCE

SUBJECT : R Programming

## Practical No 7

**Aim :** Selecting and dropping variables using select() in R. import dataset.

### Output :



```
R - R 4.5.1 - ~/bin
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Project: (None)

Source
Console Terminal Background Jobs
R - R 4.5.1 - ~/bin
> library(dplyr)
> 
> # Import dataset
> marks <- read.csv("data_science_student_marks.csv")
> 
> print(" Original Dataset (First 3 rows) ")
[1] " Original Dataset (First 3 rows) "
> print(head(marks, 3))
  student_id location age sql_marks excel_marks python_marks power_bi_marks english_marks
1          4  Sydney  24      95         99          87             82             75
2          5   Tokyo  24      99         95          89             86             82
3          6  Berlin  22      72         70          99             79             77
> 
> # SELECTING VARIABLES
> 
> # select specific columns
> selected_cols <- marks %>%
+   select(student_id, age, python_marks)
> 
> print("---- Selected Specific columns ----")
[1] "---- Selected Specific columns ----"
> print(head(selected_cols, 3))
  student_id age python_marks
1          4  24          87
2          5  24          89
3          6  22          99
> 
> # select a range of adjacent columns
> range_cols <- marks %>%
+   select(student_id:python_marks)
> 
> print(" Selected Range of columns ")
[1] " Selected Range of columns "
> print(head(range_cols, 3))
  student_id location age sql_marks excel_marks python_marks
1          4  Sydney  24      95         99          87
2          5   Tokyo  24      99         95          89
3          6  Berlin  22      72         70          99
> 
> # select columns starting with 'p'
> starts_with_p <- marks %>%
+   select(starts_with("p"))
```

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```
RStudio
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Source
Console Terminal Background Jobs
R - R 4.5.1 - ~/
> print(" Selected Range of Columns ")
[1] " Selected Range of Columns "
> print(head(range_cols, 3))
  student_id location age sql_marks excel_marks python_marks
1          4  sydney  24      95         99         87
2          5   Tokyo  24      99         95         89
3          6   Berlin 22      72         70         99
>
> # select columns starting with 'p'
> starts_with_p <- marks %>%
+   select(starts_with("p"))
>
> print("---- columns starting with 'p' ----")
[1] "---- Columns starting with 'p' ----"
> print(head(starts_with_p, 3))
  python_marks power_bi_marks
1           87             82
2           89             86
3           99             79
>
> # DROPPING VARIABLES
>
> # Drop single column
> drop_one <- marks %>%
+   select(-location)
>
> print(" After Dropping 'location'")
[1] " After Dropping 'location'"
> print(names(drop_one))
[1] "student_id" "age" "sql_marks" "excel_marks" "python_marks"
[6] "power_bi_marks" "english_marks"
>
> # Drop multiple columns
> drop_multiple <- marks %>%
+   select(-c(location, english_marks))
>
> print(" After Dropping Multiple Columns ")
[1] " After Dropping Multiple Columns "
> print(names(drop_multiple))
[1] "student_id" "age" "sql_marks" "excel_marks" "python_marks"
[6] "power_bi_marks"
>
```

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