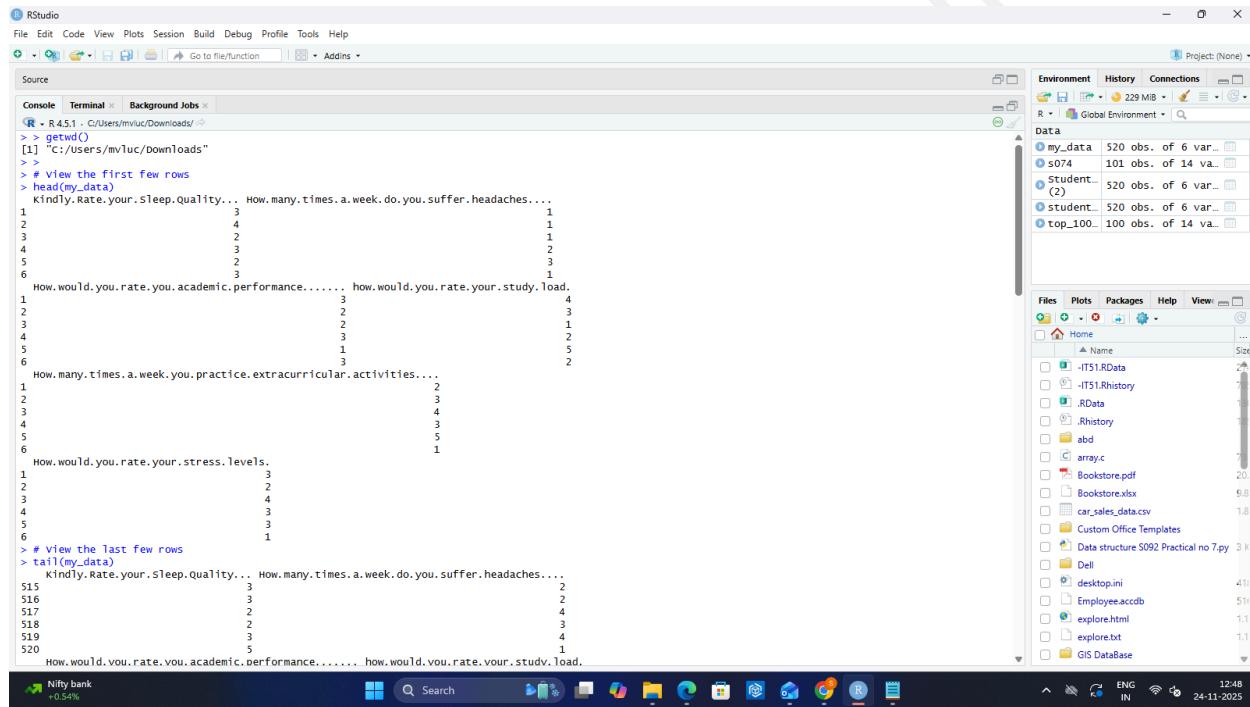


SHETH L.U.J AND SIR M.V. COLLEGE
SUBJECT NAME: DATA ANALYSIS WITH SAS/SPSS/R

Module 1 Practical 3

Aim: Exploring data: View() or print() (R).

OUTPUT:



The screenshot shows the RStudio interface with the following details:

- Console Tab:** Displays R code and its output. The code includes `getwd()`, `head(my_data)`, and `tail(my_data)` commands. The output shows data frames for `my_data` (520 rows, 6 variables), `S074` (101 rows, 14 variables), and `Student_` (2 rows). It also lists `Student_` (520 rows, 6 variables), `Student_` (520 rows, 6 variables), and `top_100_` (100 rows, 14 variables).
- Data View:** Shows the structure of the `my_data` data frame.
- File View:** Shows files in the current directory, including `IT11.RData`, `RData`, `Rhistory`, `abd`, `array.c`, `Bookstore.pdf`, `Bookstore.xlsx`, `car_sales_data.csv`, `Custom Office Templates`, `Data structure S092 Practical no 7.py`, `Dell`, `desktop.ini`, `Employee.accdb`, `explore.html`, `explore.txt`, and `GIS DataBase`.
- System Bar:** Shows the taskbar with various application icons and the system clock indicating 12:48 on 24-11-2025.

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The screenshot shows an RStudio interface with the following details:

- File Edit Code View Plots Session Build Debug Profile Tools Help**
- Source** tab selected.
- Console** tab active, showing R code and its output:

```
R > # Get the dimensions (rows and columns)
> dim(my_data)
[1] 520  6
> cat("Dimensions (Rows, Columns): ", dim(my_data), "\n")
Dimensions (Rows, Columns): 520 6
> # Check structure (types of variables)
> str(my_data)
'data.frame': 520 obs. of 6 variables:
 $ Kindly.Rate.your.Sleep.quality... : int  3 4 2 3 2 3 3 4 2 1 ...
 $ How.many.times.a.week.do.you.suffer.headaches....: int  1 1 2 3 1 5 3 1 2 ...
 $ How.would.you.rate.your.academic.performance....: int  3 2 2 3 1 3 1 4 3 ...
 $ how.would.you.rate.your.study.load....: int  4 3 1 2 5 2 4 4 4 2 ...
 $ How.many.times.a.week.you.practice.extracurricular.activities....: int  2 3 4 3 5 3 3 1 5 5 ...
 $ How.would.you.rate.your.stress.levels....: int  3 2 4 3 3 1 5 1 1 2 ...
> # summary of dataset
> summary(my_data)
Kindly.Rate.your.Sleep.quality...  How.many.times.a.week.do.you.suffer.headaches....
Min.   :1.000                   Min.   :1.000
1st Qu.:2.000                   1st Qu.:1.000
Median :3.000                   Median :2.000
Mean   :3.125                   Mean   :2.183
3rd Qu.:4.000                   3rd Qu.:3.000
Max.   :5.000                   Max.   :5.000
```

- Environment** tab shows global environment objects:

 - my_data (520 obs. of 6 vars)
 - s074 (101 obs. of 14 vars)
 - Student (2)
 - student (520 obs. of 6 vars)
 - top_100 (100 obs. of 14 vars)

- Data** tab shows the contents of the current directory:

 - T151.RData
 - T151.Rhistory
 - .RData
 - .Rhistory
 - abd
 - array.c
 - Bookstore.pdf
 - Bookstore.xlsx
 - car_sales_data.csv
 - Custom Office Templates
 - Data structure S092 Practical no.7.py
 - Dell
 - desktop.ini
 - Employee.accdb
 - explore.html
 - explore.txt
 - GIS DataBase

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

Console Terminal < Background Jobs >

R - R 4.1.1 C:\Users\mvuic\Downloads/

Min. :1.000
1st Qu.:3.000
Median :3.000
Mean :3.327
3rd Qu.:4.000
Max. :5.000
How.many.times.a.week.you.practice.extracurricular.activities...
Min. :1.000
1st Qu.:3.000
Median :3.000
Mean :2.683
3rd Qu.:4.000
Max. :5.000
How.would.you.rate.your.stress.levels.
Min. :1.000
1st Qu.:2.000
Median :3.000
Mean :2.875
3rd Qu.:4.000
Max. :5.000
> # Column names
> names(my_data)
[1] "Kindly_rate_your.sleep.quality..."
[2] "How_many.times.a.week.do.you.suffer.headaches...."
[3] "How.would.you.rate.your.academic.performance....."
[4] "How.would.you.rate.your.study.load."
[5] "How.many.times.a.week.you.practice.extracurricular.activities...."
[6] "How.would.you.rate.your.stress.levels."
> cat("Column Names: ", names(my_data), "\n")
Column Names: Kindly_rate_your.sleep.quality... How_many.times.a.week.do.you.suffer.headaches.... How.would.you.rate.your.academic.performance..... how.would.you.rate.your.study.load. How.many.times.a.week.you.practice.extracurricular.activities.... How.would.you.rate.your.stress.levels.
> # Detailed descriptive statistics
> describe(my_data)

	vars	n	mean	sd	median	trimmed
Kindly.Rate.your.Sleep.quality..	1	520	3.12	1.10	3.0	3.12
How_many.times.a.week.do.you.suffer.headaches....	2	520	2.18	1.25	2.0	2.02
How.would.you.rate.your.academic.performance.....	3	520	3.33	1.06	3.0	3.37
how.would.you.rate.your.study.load.	4	520	2.75	1.37	2.5	2.69
How.many.times.a.week.you.practice.extracurricular.activities....	5	520	2.68	1.47	3.0	2.60
How.would.you.rate.your.stress.levels.	6	520	2.88	1.36	3.0	2.84

Kindly.Rate.your.Sleep.quality.. mad min max range skew kurtosis
1.48 1 5 4 0.01 -0.66
How_many.times.a.week.do.you.suffer.headaches.... mad min max range skew kurtosis
1.48 1 5 4 0.75 -0.48

Nifty bank ENG IN 1249 24-11-2025

Project: (None)

Environment History Connections

Console Terminal < Background Jobs >

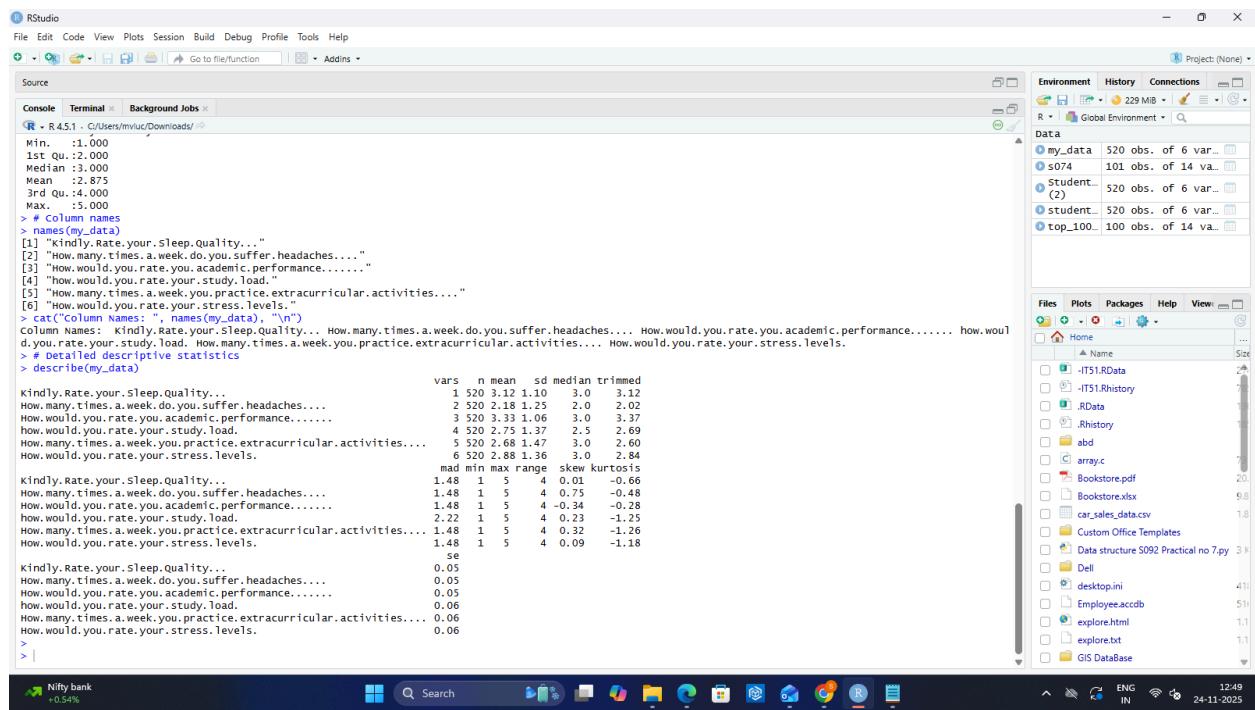
R - R 4.1.1 C:\Users\mvuic\Downloads/

my_data 520 obs. of 6 var...
s074 101 obs. of 14 var...
Student_1 520 obs. of 6 var...
student_1 520 obs. of 6 var...
top_100 100 obs. of 14 var...

Files Plots Packages Help View

Home Name -IT51.RData .IT51.Rhistory .RData .Rhistory abd array.c Bookstore.pdf Bookstore.xlsx car_sales_data.csv Custom Office Templates Data structure 5092 Practical no 7.pdf Dell desktop.ini Employee.accdb explore.html explore.txt GIS DataBase

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The screenshot shows the RStudio interface with the following details:

- Console:** Displays R code and its output. The code includes reading a CSV file, setting column names, and running descriptive statistics (names and describe) on the dataset.
- Environment:** Shows the global environment with objects like my_data, s074, Student, student, and top_100.
- Files:** Shows a file tree with various files including IT51.RData, RData, Rhistory, abd, array.c, Bookstore.pdf, Bookstore.xlsx, car_sales_data.csv, Custom Office Templates, Data structure 5092 Practical no 7.py, Dell, desktop.ini, Employee.accdb, explore.html, explore.txt, and GIS DataBase.
- Plots:** No plots are visible in this screenshot.
- Packages:** No packages are visible in this screenshot.
- Help:** No help is visible in this screenshot.
- View:** Shows system information like battery level (0.54%), signal strength, and date/time (24-11-2025, 12:49).