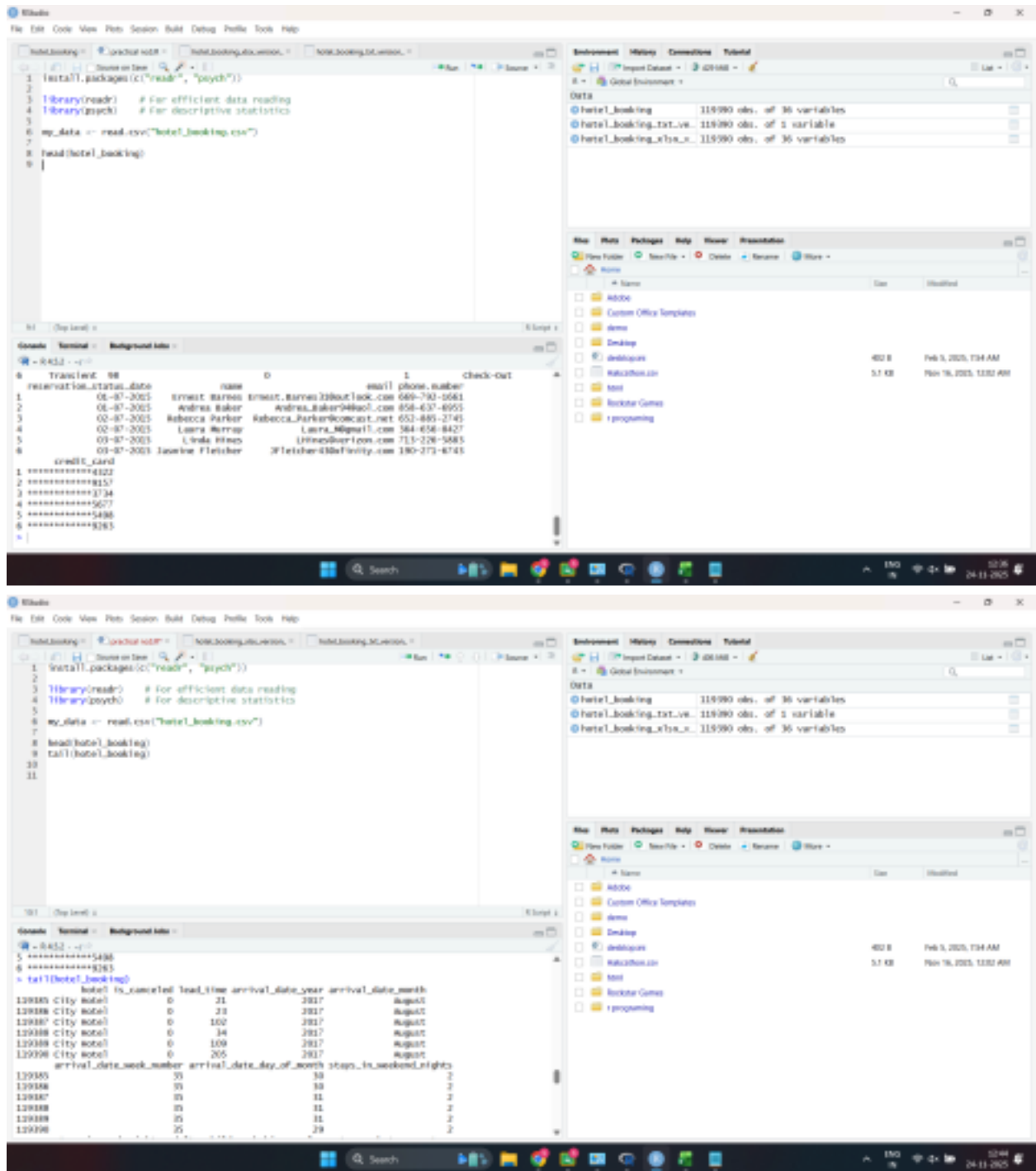


# SHETH L.U.J SIR M.V COLLEGE

## PRACTICAL NO3

AIM: Exploring data: View() or print() ®



Riya rane  
S107 syics

# SHETH L.U.J SIR M.V COLLEGE PRACTICAL NO3

The image displays two screenshots of the RStudio integrated development environment (IDE) showing R code for data manipulation and environment panels.

**Top Screenshot:**

- Source Panel:** Contains R code for loading and reading data.
 

```
1 install.packages(c("readr", "psych"))
2
3 library(readr) # for efficient data reading
4 library(psych) # for descriptive statistics
5
6 my_data <- read_csv("hotel_booking.csv")
7
8 head(hotel_booking)
9 tail(hotel_booking)
10 dim(hotel_booking)
11
```
- Environment Panel:** Shows the loaded data objects:
  - hotel\_booking: 119990 obs., of 36 variables
  - hotel\_booking\_txt\_v...: 119990 obs., of 1 variable
  - hotel\_booking\_txt\_v...: 119990 obs., of 36 variables
- Console Panel:** Shows the output of the code, including the dimensions of the data frame:
 

```
119990      36
> dim(hotel_booking)
[1] 119990      36
```

**Bottom Screenshot:**

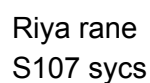
- Source Panel:** Contains R code for saving the data frame to a CSV file.
 

```
1 install.packages(c("readr", "psych"))
2
3 library(readr) # for efficient data reading
4 library(psych) # for descriptive statistics
5
6 my_data <- read_csv("hotel_booking.csv")
7
8 head(hotel_booking)
9 tail(hotel_booking)
10 dim(hotel_booking)
11 cat("Dimensions (Rows, columns): ", dim(hotel_booking), "\n")
12
```
- Environment Panel:** Shows the loaded data objects:
  - hotel\_booking: 119990 obs., of 36 variables
  - hotel\_booking\_txt\_v...: 119990 obs., of 1 variable
  - hotel\_booking\_txt\_v...: 119990 obs., of 36 variables
- Console Panel:** Shows the output of the code, including the dimensions of the data frame:
 

```
119990      36
> dim(hotel_booking)
[1] 119990      36
> cat("Dimensions (Rows, columns): ", dim(hotel_booking), "\n")
Dimensions (Rows, columns): 119990 36
> cat("Dimensions (Rows, columns): ", dim(my_data), "\n")
Dimensions (Rows, columns): 119990 36
```

The screenshot shows the RStudio interface with the following components:

- Script Editor:** Contains the R script for loading and inspecting the 'hote1\_booki' dataset. The script includes comments for the 'library(readr)' and 'library(psych)' packages, and a comment for the 'read\_csv()' function. It also includes a comment for the 'dim()' function.
- Console:** Shows the execution of the script, including the output of the 'dim(hote1\_booki)' command, which returns '139390 30'.
- Environment Pane:** Displays the 'hote1\_booki' data frame, showing its dimensions (139390 obs. of 30 variables) and the number of variables (30).



## SHETH L.U.J SIR M.V COLLEGE PRACTICAL NO3

```

1 library(psych) # For descriptive statistics
2
3 my_data <- read.csv("hotel_booking.csv")
4
5 head(my_data)
6 tail(my_data)
7 dim(my_data)
8 cat("Dimensions (Rows, Columns): ", dim(my_data), "\n")
9 str(my_data)
10 summary(my_data)
11 names(my_data)
12 cat("Column Names: ", names(my_data), "\n")
13
14 # Display the first few rows of the data
15 head(my_data)

```

Output of `summary(my_data)`:

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
company	Min. : 0.0	1st Qu.: 0.000	Median: 0.000	Mean : 0.0000	3rd Qu.: 0.000	Max. : 0.000
days_in_waiting_list	Min. : 0.000	1st Qu.: 0.000	Median: 0.000	Mean : 0.0000	3rd Qu.: 0.000	Max. : 0.000
customer_type	Min. : 0.000	1st Qu.: 0.000	Median: 0.000	Mean : 0.0000	3rd Qu.: 0.000	Max. : 0.000
adr	Min. : -6.38	1st Qu.: 89.28	Median: 84.34	Mean : 0.06252	3rd Qu.: 1.0000	Max. : 0.0000
required_car_parking_spaces	Min. : 0.0000	1st Qu.: 0.0000	Median: 0.0000	Mean : 0.0000	3rd Qu.: 0.0000	Max. : 0.0000
total_of_special_requests	Min. : 0.0000	1st Qu.: 0.0000	Median: 0.0000	Mean : 0.0000	3rd Qu.: 0.0000	Max. : 0.0000

Output of `names(my_data)`:

```

[1] "company" "days_in_waiting_list" "customer_type" "adr" "required_car_parking_spaces" "total_of_special_requests" "reservation_status" "reservation_status_date" "name" "email" "phone_number" "credit_card"

```