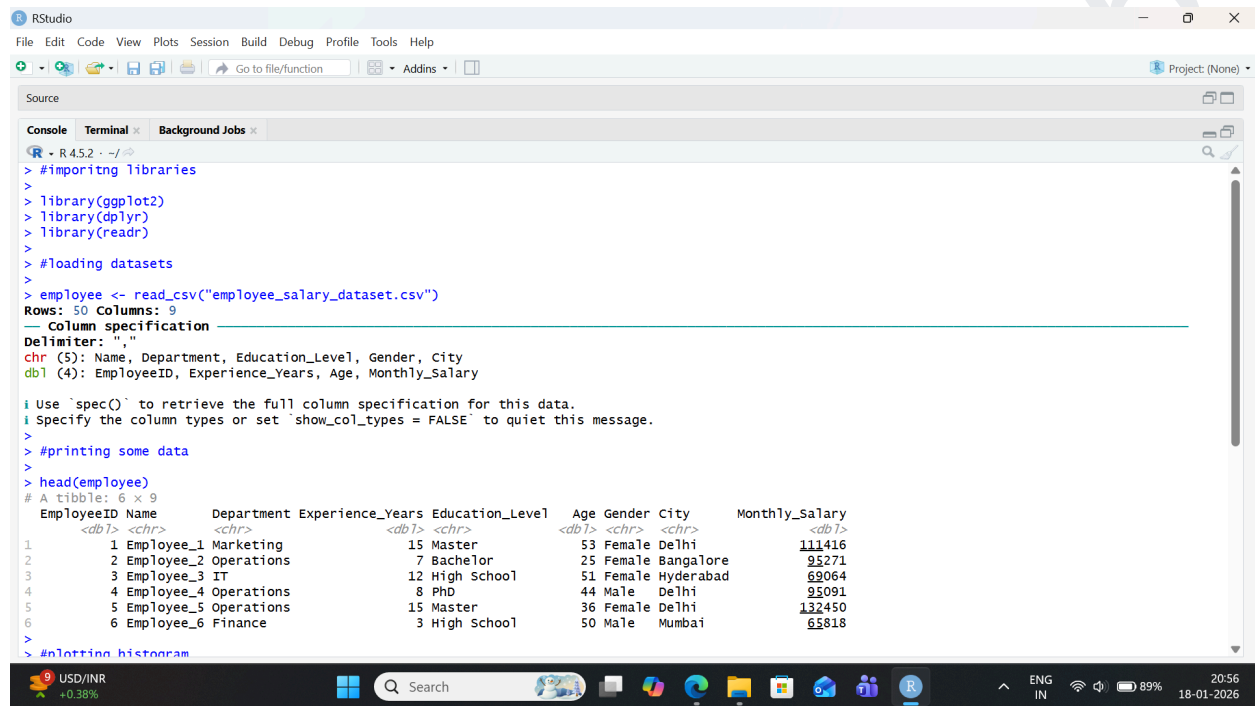


## Practical No 11 Module II

**Aim :** Generating histograms and box plots using ggplot2.

**Output :**



```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins Project: (None)
Source
Console Terminal Background Jobs
R 4.5.2 - ~/
> #importing libraries
>
> library(ggplot2)
> library(dplyr)
> library(readr)
>
> #loading datasets
>
> employee <- read_csv("employee_salary_dataset.csv")
Rows: 50 Columns: 9
  Column specification
Delimeter: ","
chr (5): Name, Department, Education_Level, Gender, City
dbl (4): EmployeeID, Experience_Years, Age, Monthly_Salary

i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
>
> #printing some data
>
> head(employee)
# A tibble: 6 x 9
  EmployeeID Name      Department Experience_Years Education_Level Age Gender City      Monthly_Salary
  <dbl> <chr> <chr> <dbl> <chr> <dbl> <chr> <chr> <dbl>
1 1 Employee_1 Marketing 15 Master 53 Female Delhi 111416
2 2 Employee_2 Operations 7 Bachelor 25 Female Bangalore 95271
3 3 Employee_3 IT 12 High School 51 Female Hyderabad 69064
4 4 Employee_4 Operations 8 PhD 44 Male Delhi 95091
5 5 Employee_5 Operations 15 Master 36 Female Delhi 132450
6 6 Employee_6 Finance 3 High School 50 Male Mumbai 65818
>
> #plotting histogram
```

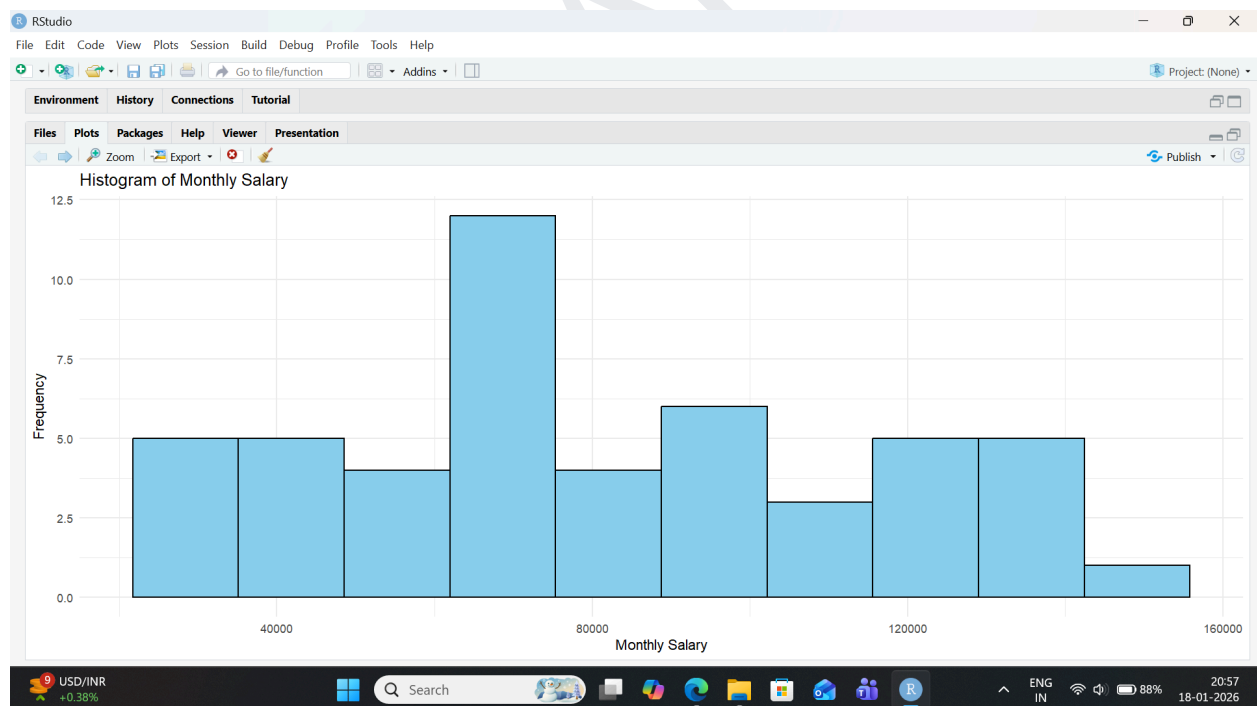
# SHETH L.U.J. AND SIR M.V. COLLEGE OF ARTS SCIENCE AND COMMERCE

## SUBJECT : R Programming

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins Project: (None)

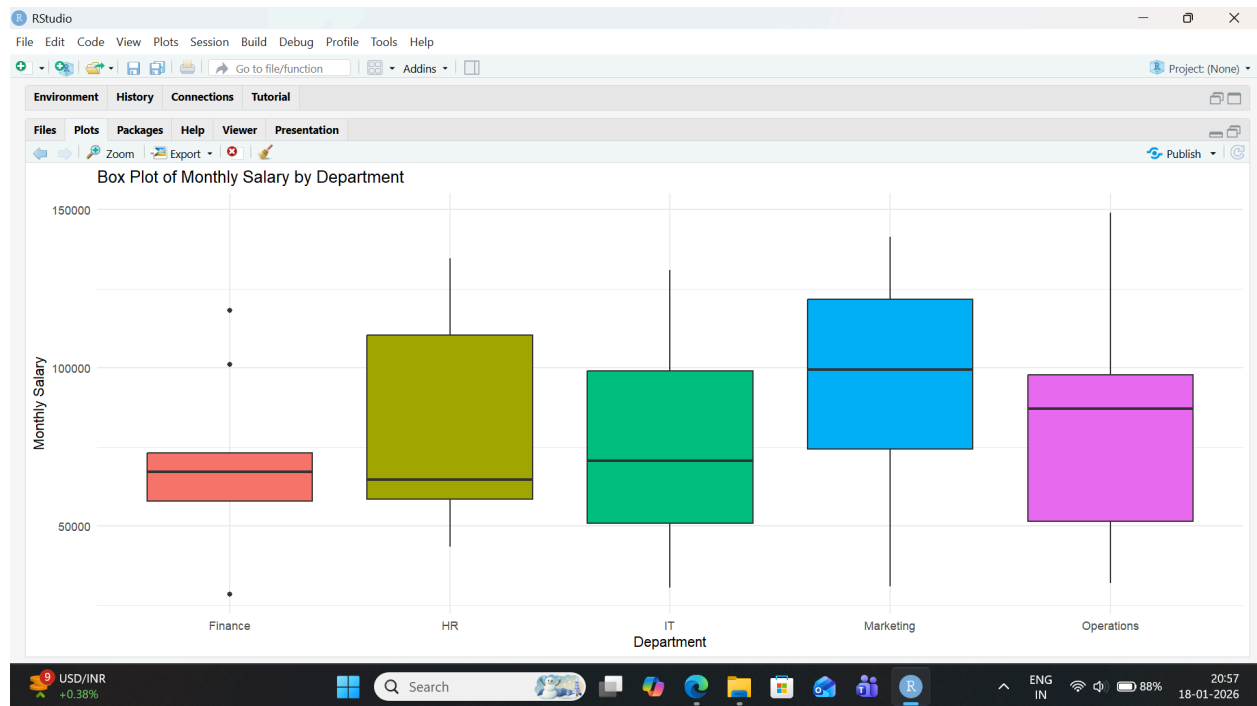
Source
Console Terminal Background Jobs
R - R 4.5.2 - /

1 <dbl> <chr> <chr> <dbl> <chr> <dbl> <chr> <chr>
2 1 Employee_1 Marketing 15 Master 53 Female Delhi 111416
3 2 Employee_2 Operations 7 Bachelor 25 Female Bangalore 95271
4 3 Employee_3 IT 12 High School 51 Female Hyderabad 69064
5 4 Employee_4 Operations 8 PhD 44 Male Delhi 95091
6 5 Employee_5 Operations 15 Master 36 Female Delhi 132450
7 6 Employee_6 Finance 3 High School 50 Male Mumbai 65818
8
9 > #plotting histogram
10 >
11 > ggplot(employee, aes(x = Monthly_Salary)) +
12 + geom_histogram(bins = 10, fill = "skyblue", color = "black") +
13 + labs(
14 + title = "Histogram of Monthly Salary",
15 + x = "Monthly Salary",
16 + y = "Frequency"
17 + ) +
18 + theme_minimal()
19 >
20 > #plotting box plot
21 >
22 > ggplot(employee, aes(x = Department, y = Monthly_Salary, fill = Department)) +
23 + geom_boxplot() +
24 + labs(
25 + title = "Box Plot of Monthly salary by Department",
26 + x = "Department",
27 + y = "Monthly Salary"
28 + ) +
29 + theme_minimal() +
30 + theme(legend.position = "none")
31 >
```



NAME : SHUBHAM SANJAY KARAPE  
ROLL NO : S085

**SHETH L.U.J. AND SIR M.V. COLLEGE OF ARTS SCIENCE AND COMMERCE**  
**SUBJECT : R Programming**



NAME : SHUBHAM SANJAY KARAPE  
ROLL NO : S085