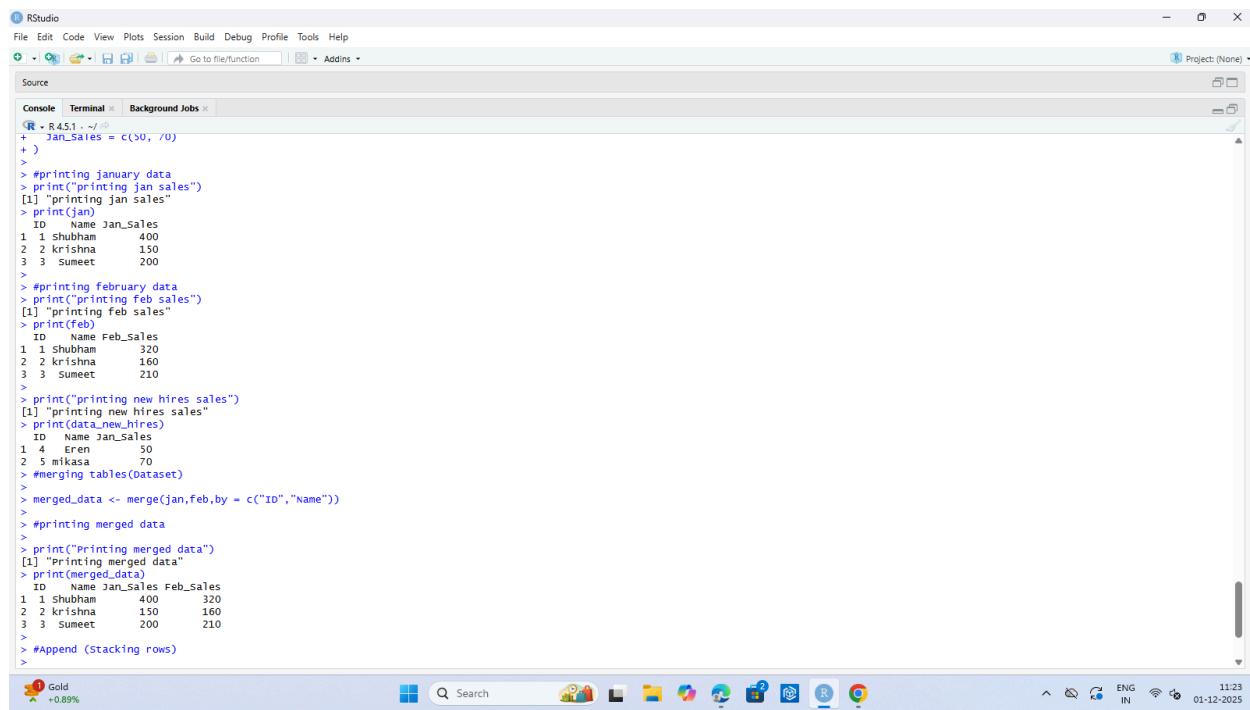


## **Practical No 6**

**Aim :** Combining and appending datasets using merge() or bind\_rows() in R.

**Output :**



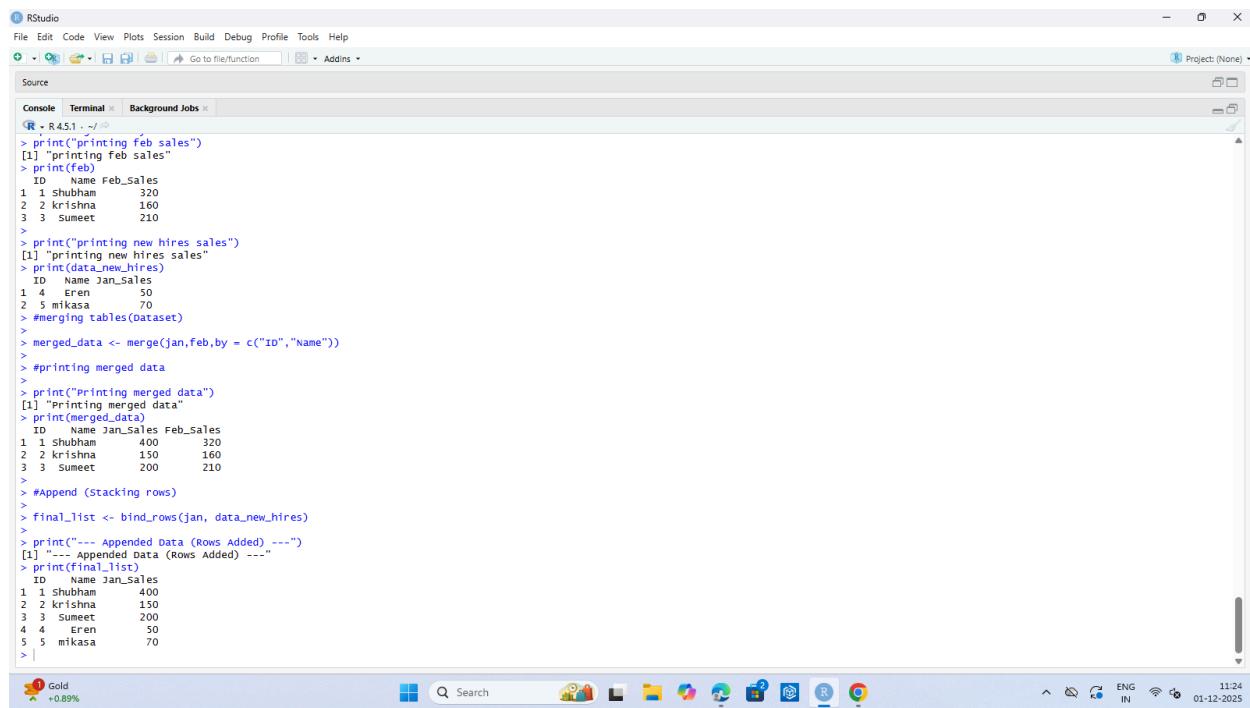
The screenshot shows the RStudio interface with the following R code in the Console tab:

```
R - R 4.5.1 - ~/Desktop
+ Jan_Sales = c(50, 70)
+
> #printing january data
> print("printing jan sales")
[1] "printing jan sales"
> print(jan_sales)
#> #> #> #> #>
#> ID Name Jan_Sales
#> 1 Shubham    400
#> 2 krishna     150
#> 3 sumeet      200
#
> #printing february data
> print("printing feb sales")
[1] "printing feb sales"
> print(feb_sales)
#> #> #> #> #>
#> ID Name Feb_Sales
#> 1 Shubham    320
#> 2 krishna     160
#> 3 sumeet      210
#
> print("printing new hires sales")
[1] "printing new hires sales"
> print(data_new_hires)
#> #> #> #> #>
#> ID Name Jan_Sales
#> 1 Eren        50
#> 2 mikasa      70
> #merging tables(dataset)
>
> merged_data <- merge(jan,feb,by = c("ID","Name"))
>
> #printing merged data
>
> print("Printing merged data")
[1] "Printing merged data"
> print(merged_data)
#> #> #> #> #>
#> ID Name Jan_Sales Feb_Sales
#> 1 Shubham    400    320
#> 2 krishna     150    160
#> 3 sumeet      200    210
#
> #Append (Stacking rows)
>
```

The code defines three datasets: Jan\_Sales, feb\_sales, and data\_new\_hires. It then merges the first two datasets based on 'ID' and 'Name', and prints the resulting merged dataset. The merged dataset contains columns for 'ID', 'Name', 'Jan\_Sales', and 'Feb\_Sales'.

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

## SUBJECT : R Programming



The screenshot shows the RStudio interface with the following R code:

```
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 4.5.1 - /-
> print("printing feb sales")
[1] "printing Feb sales"
> print(febs)
#> #> #> Feb_Sales
#> #> 1 Shubham    320
#> #> 2 krishna    160
#> #> 3 Sumeet      210
#>
> print("printing new hires sales")
[1] "printing new hires sales"
> print(data_new_hires)
#> #> Jan_Sales
#> #> 1 Eren        50
#> #> 2 mikasa     70
#> #merging tables(dataset)
#>
> merged_data <- merge(jan,feb,by = c("ID","Name"))
#>
#> #printing merged data
#>
> print("Printing merged data")
[1] "Printing merged data"
> print(merged_data)
#> #> #> ID Name Jan_Sales Feb_Sales
#> #> #> 1 Shubham    400    320
#> #> #> 2 krishna    150    160
#> #> #> 3 Sumeet      200    210
#>
#> #Append (Stacking rows)
#>
> final_list <- bind_rows(jan, data_new_hires)
#>
> print("--- Appended Data (Rows Added) ---")
[1] "--- Appended Data (Rows Added) ---"
> print(final_list)
#> #> #> ID Name Jan_Sales
#> #> #> 1 Shubham    400
#> #> #> 2 krishna    150
#> #> #> 3 Sumeet      200
#> #> #> 4 Eren        50
#> #> #> 5 mikasa     70
#> |
```

The code performs the following steps:

- Prints "printing feb sales".
- Prints the contents of the febs dataset.
- Prints "printing new hires sales".
- Prints the contents of the data\_new\_hires dataset.
- Merges the jan and feb datasets using the "ID" and "Name" columns.
- Prints the merged data.
- Appends the data\_new\_hires dataset to the jan dataset using the bind\_rows function.
- Prints the appended data.

The final output shows a combined dataset with 5 rows, including the original 3 rows from jan and 2 new rows from data\_new\_hires.