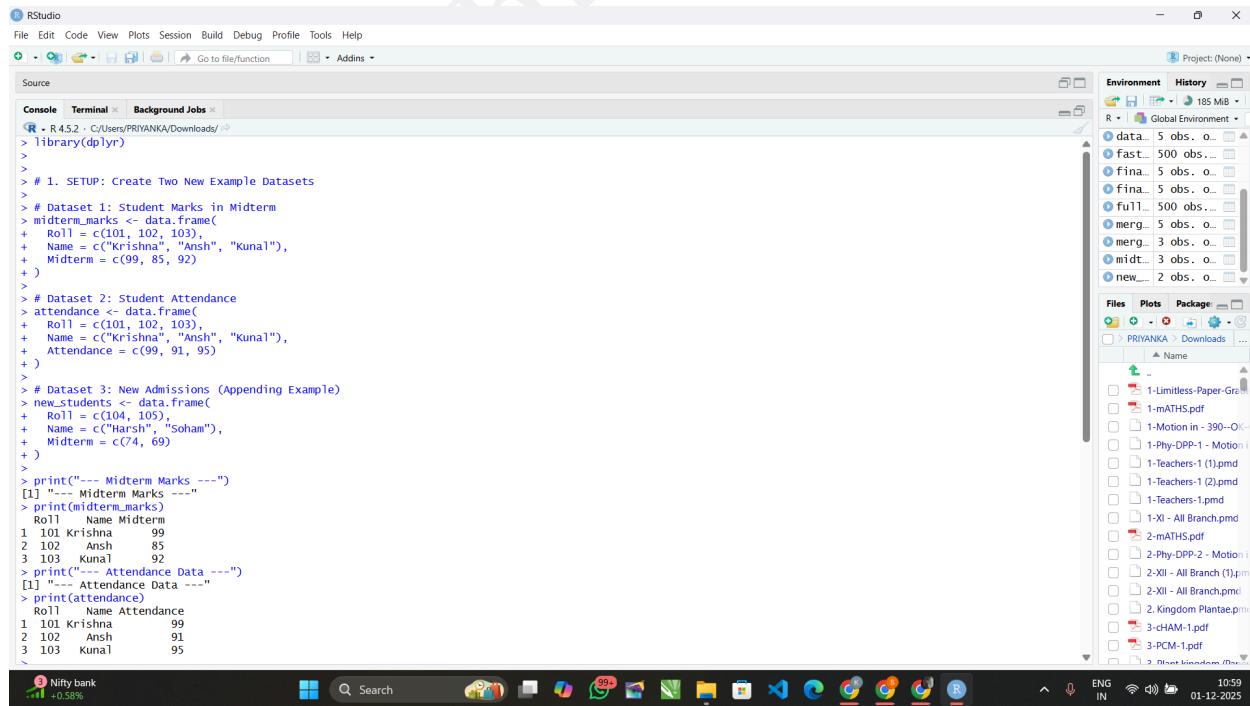


**SHETH L.U.J AND SIR M.V. COLLEGE**  
**SUBJECT NAME: DATA ANALYSIS WITH SAS/SPSS/R**

## Module 1 Practical 6

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

### OUTPUT:

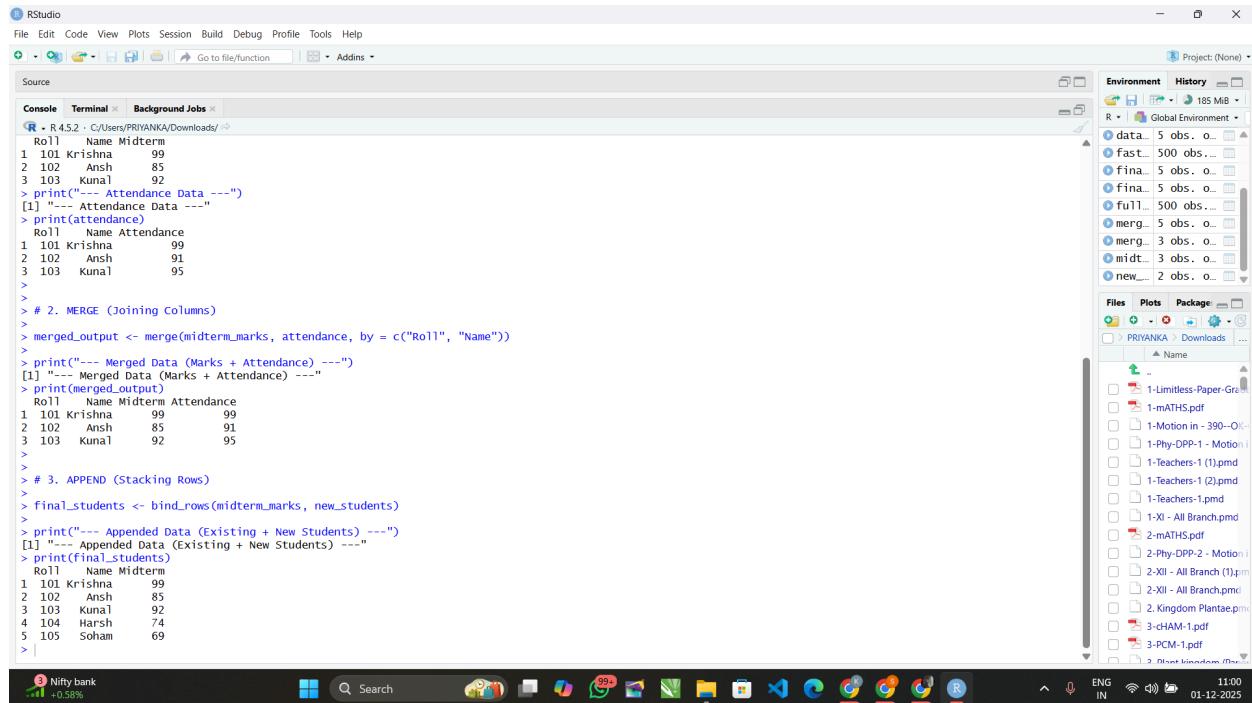


The screenshot shows the RStudio interface with the following details:

- Console Tab:** Displays R code for creating three datasets: midterm\_marks, attendance, and new\_students, and then prints their contents.
- Environment Tab:** Shows global variables including data\_5, fast\_500, fina\_5, fina\_500, full\_500, merg\_5, merg\_3, midt\_3, and new\_2.
- Files Tab:** Shows a project folder named "PRIYANKA" containing various files like 1-Limitless-Paper-Gra..., 1-mATHS.pdf, etc.
- Plots Tab:** No plots are present.
- Package Tab:** No packages are listed.

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
R - R 4.5.2 · C:/Users/PRIYANKA/Downloads/...
Source
Console Terminal Background Jobs
> library(dplyr)
>
>
> # 1. SETUP: Create Two New Example Datasets
>
> # Dataset 1: Student Marks in Midterm
> midterm_marks <- data.frame(
+   Roll = c(101, 102, 103),
+   Name = c("Krishna", "Ansh", "Kunal"),
+   Midterm = c(99, 85, 92)
+ )
>
> # Dataset 2: Student Attendance
> attendance <- data.frame(
+   Roll = c(101, 102, 103),
+   Name = c("Krishna", "Ansh", "Kunal"),
+   Attendance = c(99, 91, 95)
+ )
>
> # Dataset 3: New Admissions (Appending Example)
> new_students <- data.frame(
+   Roll = c(104, 105),
+   Name = c("Harsh", "Soham"),
+   Midterm = c(74, 69)
+ )
>
> print("---- Midterm Marks ---")
[1] "---- Midterm Marks ---"
> print(midterm_marks)
  Roll Name Midterm
1 101 Krishna    99
2 102 Ansh      85
3 103 Kunal     92
> print("---- Attendance Data ---")
[1] "---- Attendance Data ---"
> print(attendance)
  Roll Name Attendance
1 101 Krishna      99
2 102 Ansh        91
3 103 Kunal       95
Project: (None)
```

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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
Source
Console Terminal Background Jobs
R 4.5.2 - R 4.5.2 · C:/Users/PRIYANKA/Downloads/
1 Roll Name Midterm
1 101 Krishna 99
2 102 Ansh 85
3 103 Kunal 92
> print("--- Attendance Data ---")
[1] "--- Attendance Data ---"
> print(attendance)
Roll Name Attendance
1 101 Krishna 99
2 102 Ansh 91
3 103 Kunal 95
>
> # 2. MERGE (Joining Columns)
>
> merged_output <- merge(midterm_marks, attendance, by = c("Roll", "Name"))
>
> print("---- Merged Data (Marks + Attendance) ----")
[1] "---- Merged Data (Marks + Attendance) ----"
> print(merged_output)
Roll Name Midterm Attendance
1 101 Krishna 99 99
2 102 Ansh 85 91
3 103 Kunal 92 95
>
> # 3. APPEND (Stacking Rows)
>
> final_students <- bind_rows(midterm_marks, new_students)
>
> print("---- Appended Data (Existing + New Students) ----")
[1] "---- Appended Data (Existing + New Students) ----"
> print(final_students)
Roll Name Midterm
1 101 Krishna 99
2 102 Ansh 85
3 103 Kunal 92
4 104 Harsh 74
5 105 Sohan 69
>
```

The RStudio interface includes a top menu bar, a toolbar with various icons, and a sidebar on the right labeled "Environment" and "History". The "Files" tab in the sidebar shows a directory structure with several PDF files related to the course material.