

SHETH L.U.J AND SIR MV COLLEGE
PRACTICAL NO:- 06

AIM :- Combining and appending datasets using merge() or bind_rows() in R.

ONLY ONE DATASET USING :-

CODE:-

```
library(dplyr)
iris <- read.csv("C:/Users/IT-29/Downloads/iris.csv")

head(iris)
sepal_data <- iris %>%
  select(sepal_length, sepal_width, species)

petal_data <- iris %>%
  select(petal_length, petal_width, species)

merged_iris <- merge(sepal_data, petal_data, by = "species")

cat("\n--- MERGED DATASET (Columns Added) ---\n")
print(head(merged_iris, 10))

iris_part1 <- iris[1:75, ]  # First 75 rows
iris_part2 <- iris[76:150, ] # Last 75 rows

iris_appended <- bind_rows(iris_part1, iris_part2)

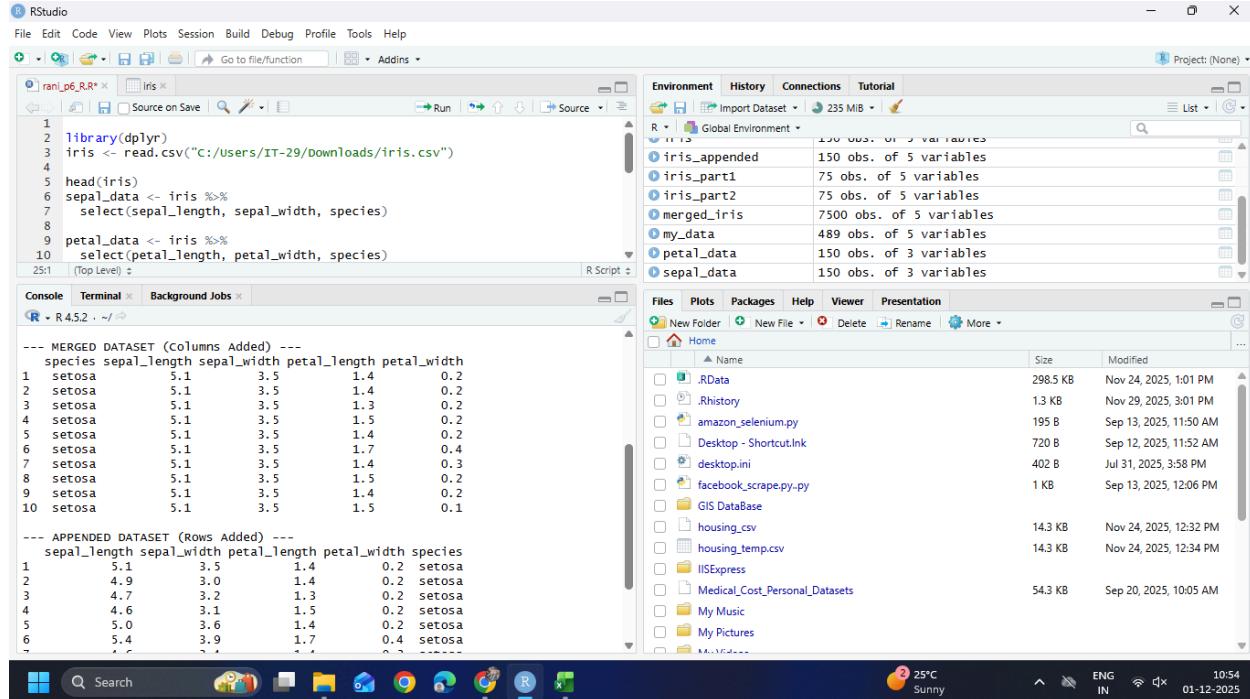
cat("\n--- APPENDED DATASET (Rows Added) ---\n")
print(head(iris_appended, 10))

cat("\nPRACTICAL 6 COMPLETED SUCCESSFULLY.\n")
```

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OUTPUT:-



TWO DATASET USING :-

CODE:-

```
library(dplyr)
```

```
iris <- read.csv("C:/Users/IT-29/Downloads/iris.csv")
housing <- read.csv("C:/Users/IT-29/Downloads/housing (2).csv")
# str(iris)
# str(housing)
iris$ID <- 1:nrow(iris)
housing$ID <- 1:nrow(housing)

merged_data <- merge(iris, housing, by = "ID")

iris_part1 <- iris[1:75, ]
iris_part2 <- iris[76:nrow(iris), ]

appended_iris <- bind_rows(iris_part1, iris_part2)
```

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```

cat("---- Merged Dataset (by ID) ----\n")
print(head(merged_data))

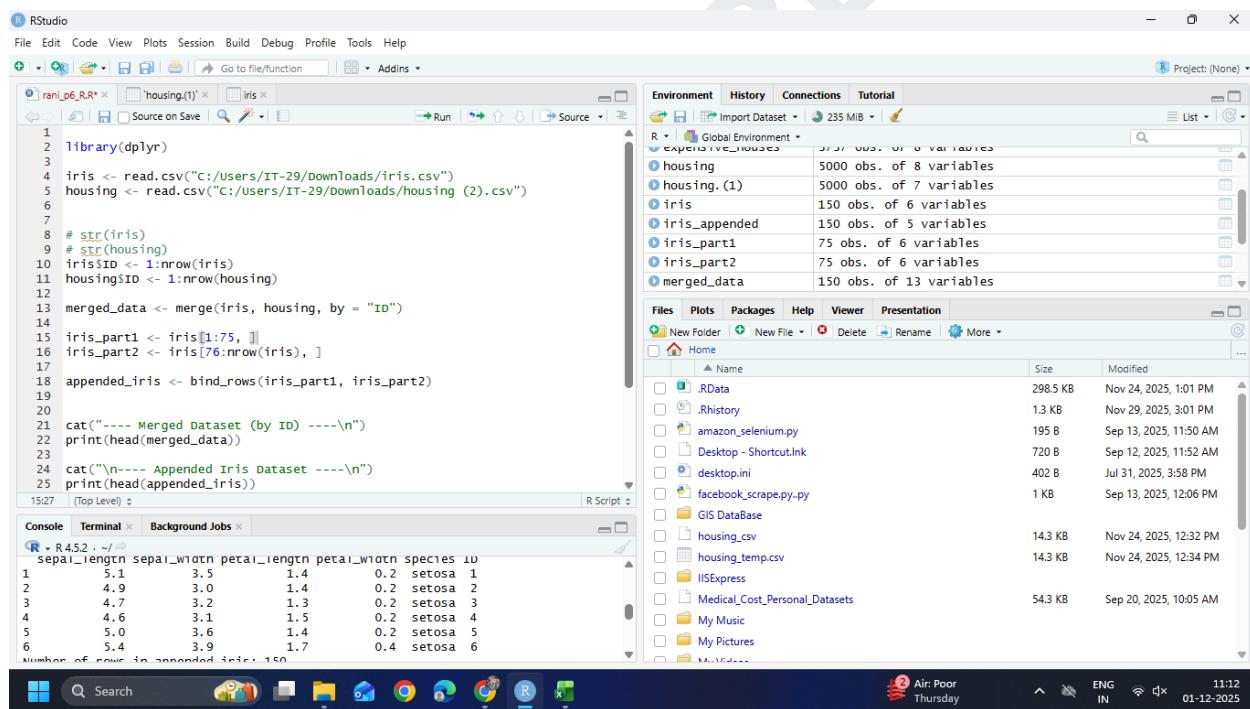
cat("\n---- Appended Iris Dataset ----\n")
print(head(appended_iris))
cat("Number of rows in appended iris:", nrow(appended_iris), "\n")

cat("\n---- Filtering Housing Dataset (Price > 1,000,000) ----\n")
expensive_houses <- housing %>% filter(Price > 1000000)
print(head(expensive_houses))

cat("\nPRACTICAL 6 (Merge & Append) completed successfully.\n")

```

OUTPUT:-



The screenshot shows the RStudio interface with the following details:

- Code Editor:** The script pane contains the R code provided above, with syntax highlighting for functions like `library`, `read.csv`, and `filter`.
- Environment View:** The global environment shows variables and their characteristics:
 - `expensive_houses`: 5000 obs. of 8 variables
 - `housing`: 5000 obs. of 7 variables
 - `iris`: 150 obs. of 6 variables
 - `iris_appended`: 150 obs. of 5 variables
 - `iris_part1`: 75 obs. of 6 variables
 - `iris_part2`: 75 obs. of 6 variables
 - `merged_data`: 150 obs. of 13 variables
- File Browser:** The sidebar shows the project structure and files:
 - `RData`: 298.5 KB, Nov 24, 2025, 1:01 PM
 - `Rhistory`: 1.3 KB, Nov 29, 2025, 3:01 PM
 - `amazon_selenium.py`: 195 B, Sep 13, 2025, 11:50 AM
 - `Desktop - Shortcut.lnk`: 720 B, Sep 12, 2025, 11:52 AM
 - `desktop.ini`: 402 B, Jul 31, 2025, 3:58 PM
 - `facebook_scrape.py.py`: 1 KB, Sep 13, 2025, 12:06 PM
 - `GIS DataBase`: 14.3 KB, Nov 24, 2025, 12:32 PM
 - `housing.csv`: 14.3 KB, Nov 24, 2025, 12:34 PM
 - `housing_temp.csv`: 54.3 KB, Sep 20, 2025, 10:05 AM
 - `IISExpress`
 - `Medical_Cost_Personal_Datasets`
 - `My Music`
 - `My Pictures`
 - `README.md`
- Console View:** The output of the R code is displayed, showing the merged datasets and the filtered housing dataset.
- System Tray:** The bottom right corner shows system status icons for battery, signal, and date/time.

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RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Project: (None)

Source

```

Console Terminal Background Jobs
> View(housing.(1))
> source("~/rani_p6.R")
---- Merged Dataset (by ID) ----
ID sepal_length sepal_width petal_length petal_width species
1 5.1 3.5 1.4 0.2 setosa
2 4.9 3.0 1.4 0.2 setosa
3 4.7 3.2 1.3 0.2 setosa
4 4.6 3.1 1.5 0.2 setosa
5 5.0 3.6 1.4 0.2 setosa
6 5.4 3.9 1.7 0.4 setosa
Avg..Area.Income Avg..Area.House.Age Avg..Area.Number.of.Rooms
1 79545.46 5.682861 7.009188
2 79248.64 6.002900 6.730821
3 61287.07 5.865890 8.512727
4 63345.24 7.188236 5.586729
5 59892.20 5.040555 7.839388
6 80175.75 4.988408 6.104512
Avg..Area.Number.of.Bedrooms Area.Population Price
1 4.09 23086.80 1059033.6
2 3.09 40173.07 1505890.9
3 5.13 36882.16 1058988.0
4 3.26 34310.24 1260616.8
5 4.23 26354.11 630943.5
6 4.04 26748.43 1068138.1
Address
1 208 Michael Ferry Apt. 674\nLaurabury, NE 37010-5101
2 188 Johnson Views Suite 079\nLake Kathleen, CA 48958
3 9127 Elizabeth Stravenue\nDanieldown, WI 06482-3489
4 USS Barnett\nFPO AP 44820
5 USNS Raymond\nFPO AE 09386
6 06039 Jennifer Islands Apt. 443\nTracyport, KS 16077
---- Appended Iris Dataset ----
sepal.length sepal.width petal.length petal.width species ID
1 5.1 3.5 1.4 0.2 setosa 1
2 4.9 3.0 1.4 0.2 setosa 2
3 4.7 3.2 1.3 0.2 setosa 3
4 4.6 3.1 1.5 0.2 setosa 4
5 5.0 3.6 1.4 0.2 setosa 5
6 5.4 3.9 1.7 0.4 setosa 6
Number of rows in appended iris: 150
---- Filtering Housing dataset (Price > 1,000,000) ----
Avg..Area.Income Avg..Area.House.Age Avg..Area.Number.of.Rooms
1 79545.46 5.682861 7.009188
2 79248.64 6.002900 6.730821
3 61287.07 5.865890 8.512727
4 63345.24 7.188236 5.586729
5 80175.75 4.988408 6.104512
6 64698.46 6.025336 8.147760
Avg..Area.Number.of.Bedrooms Area.Population Price
1 4.09 23086.80 1059034
2 3.09 40173.07 1505891
3 5.13 36882.16 1058988
4 3.26 34310.24 1260617
5 4.04 26748.43 1068138
6 3.41 60828.25 1502056
Address ID
1 208 Michael Ferry Apt. 674\nLaurabury, NE 37010-5101 1
2 188 Johnson Views Suite 079\nLake Kathleen, CA 48958 2
3 9127 Elizabeth Stravenue\nDanieldown, WI 06482-3489 3
4 USS Barnett\nFPO AP 44820 4
5 USNS Raymond\nFPO AE 09386 5
6 4759 Daniel shoals Suite 442\nNguyenburgh, CO 20247 7
PRACTICAL 6 (Merge & Append) completed successfully.

```

Avg..Area.Income Avg..Area.House.Age Avg..Area.Number.of.Rooms

Files Plots Packages Help Viewer Presentation

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2985 KB Nov 24, 2025, 1:01 PM

1.3 KB Nov 29, 2025, 3:01 PM

195 B Sep 13, 2025, 11:50 AM

720 B Sep 12, 2025, 11:52 AM

402 B Jul 31, 2025, 3:58 PM

1 KB Sep 13, 2025, 12:06 PM

14.3 KB Nov 24, 2025, 12:32 PM

14.3 KB Nov 24, 2025, 12:34 PM

54.3 KB Sep 20, 2025, 10:05 AM

11:11 01-12-2025

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Project: (None)

Source

```

Console Terminal Background Jobs
> R 4.5.2 . ~/.
sepal_length sepal_width petal_length petal_width species ID
1 5.1 3.5 1.4 0.2 setosa
2 4.9 3.0 1.4 0.2 setosa
3 4.7 3.2 1.3 0.2 setosa
4 4.6 3.1 1.5 0.2 setosa
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Number of rows in appended iris: 150
---- Filtering Housing dataset (Price > 1,000,000) ----
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3 9127 Elizabeth Stravenue\nDanieldown, WI 06482-3489 3
4 USS Barnett\nFPO AP 44820 4
5 USNS Raymond\nFPO AE 09386 5
6 4759 Daniel shoals Suite 442\nNguyenburgh, CO 20247 7
PRACTICAL 6 (Merge & Append) completed successfully.

```

Avg..Area.Income Avg..Area.House.Age Avg..Area.Number.of.Rooms

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