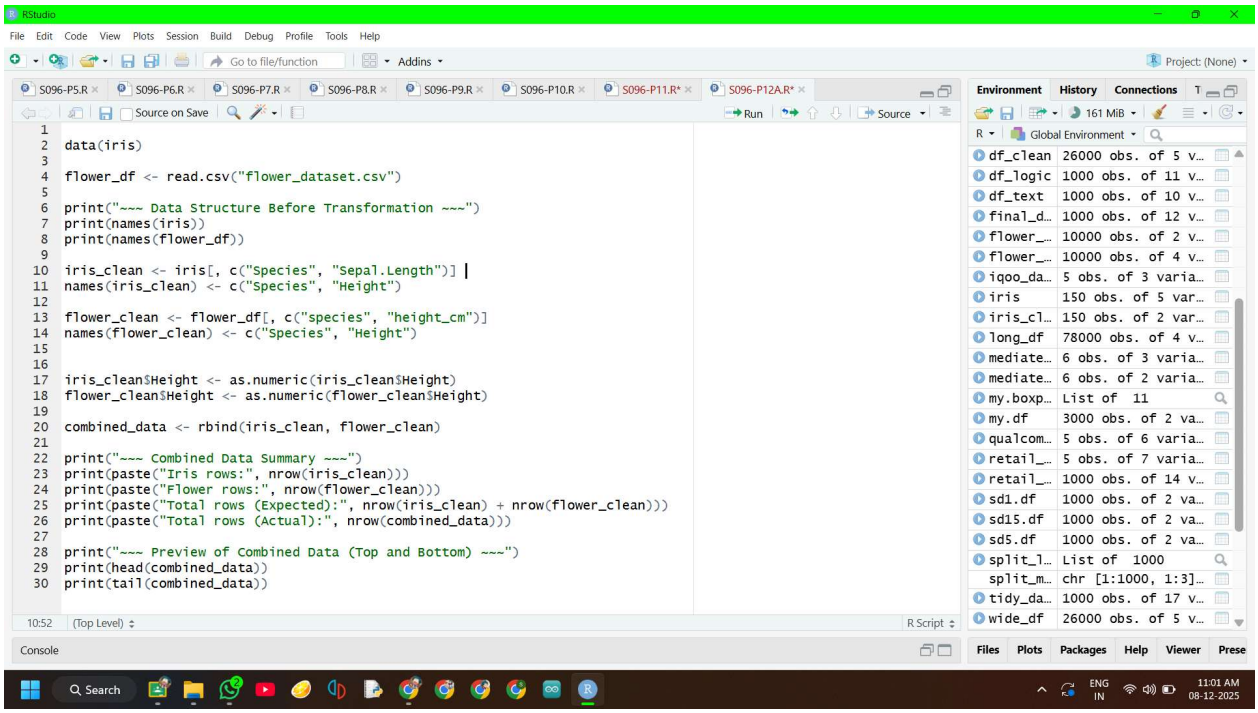
SHETH L.U.J. AND SIR M.V. COLLEGE
DATA ANALYSIS WITH SAS/SPSS/R

PRACTICAL NO: 12

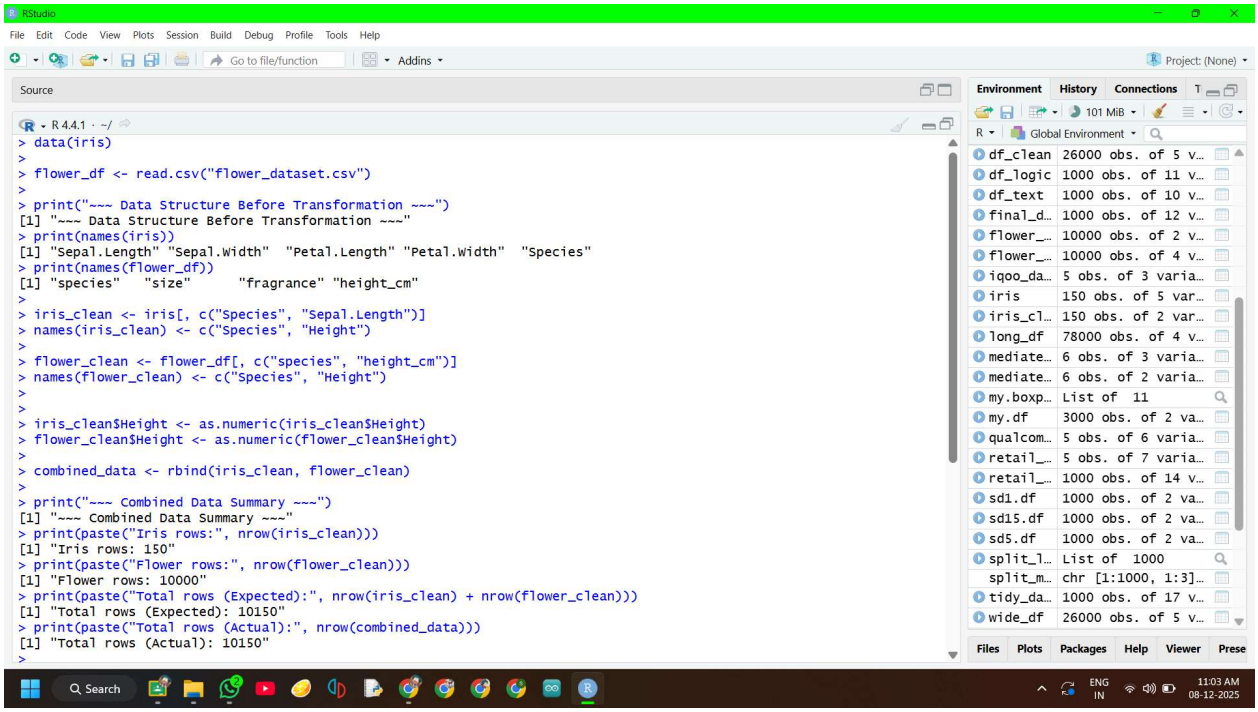
AIM:Combining datasets vertically (concatenation) using rbind() (R).

CODE:



```
data(iris)

flower_df <- read.csv("flower_dataset.csv")

print("~~~ Data Structure Before Transformation ~~~")
print(names(iris))
print(names(flower_df))

iris_clean <- iris[, c("Species", "Sepal.Length")]
names(iris_clean) <- c("Species", "Height")

flower_clean <- flower_df[, c("species", "height_cm")]
names(flower_clean) <- c("Species", "Height")


iris_clean$Height <- as.numeric(iris_clean$Height)
flower_clean$Height <- as.numeric(flower_clean$Height)

combined_data <- rbind(iris_clean, flower_clean)

print("~~~ Combined Data Summary ~~~")
print(paste("Iris rows:", nrow(iris_clean)))
print(paste("Flower rows:", nrow(flower_clean)))
print(paste("Total rows (Expected):", nrow(iris_clean) + nrow(flower_clean)))
print(paste("Total rows (Actual):", nrow(combined_data)))

print("~~~ Preview of Combined Data (Top and Bottom) ~~~")
print(head(combined_data))
print(tail(combined_data))
```

OUTPUT:



```
> data(iris)
>
> flower_df <- read.csv("flower_dataset.csv")
>
> print("~~~ Data Structure Before Transformation ~~~")
[1] "~~~ Data Structure Before Transformation ~~~"
> print(names(iris))
[1] "Sepal.Length" "Sepal.Width"  "Petal.Length" "Petal.Width"  "Species"
> print(names(flower_df))
[1] "species"   "size"      "fragrance" "height_cm"
>
> iris_clean <- iris[, c("Species", "Sepal.Length")]
> names(iris_clean) <- c("Species", "Height")
>
> flower_clean <- flower_df[, c("species", "height_cm")]
> names(flower_clean) <- c("Species", "Height")
>
>
> iris_clean$Height <- as.numeric(iris_clean$Height)
> flower_clean$Height <- as.numeric(flower_clean$Height)
>
> combined_data <- rbind(iris_clean, flower_clean)
>
> print("~~~ Combined Data Summary ~~~")
[1] "~~~ Combined Data Summary ~~~"
> print(paste("Iris rows:", nrow(iris_clean)))
[1] "Iris rows: 150"
> print(paste("Flower rows:", nrow(flower_clean)))
[1] "Flower rows: 10000"
> print(paste("Total rows (Expected):", nrow(iris_clean) + nrow(flower_clean)))
[1] "Total rows (Expected): 10150"
> print(paste("Total rows (Actual):", nrow(combined_data)))
[1] "Total rows (Actual): 10150"
>
```

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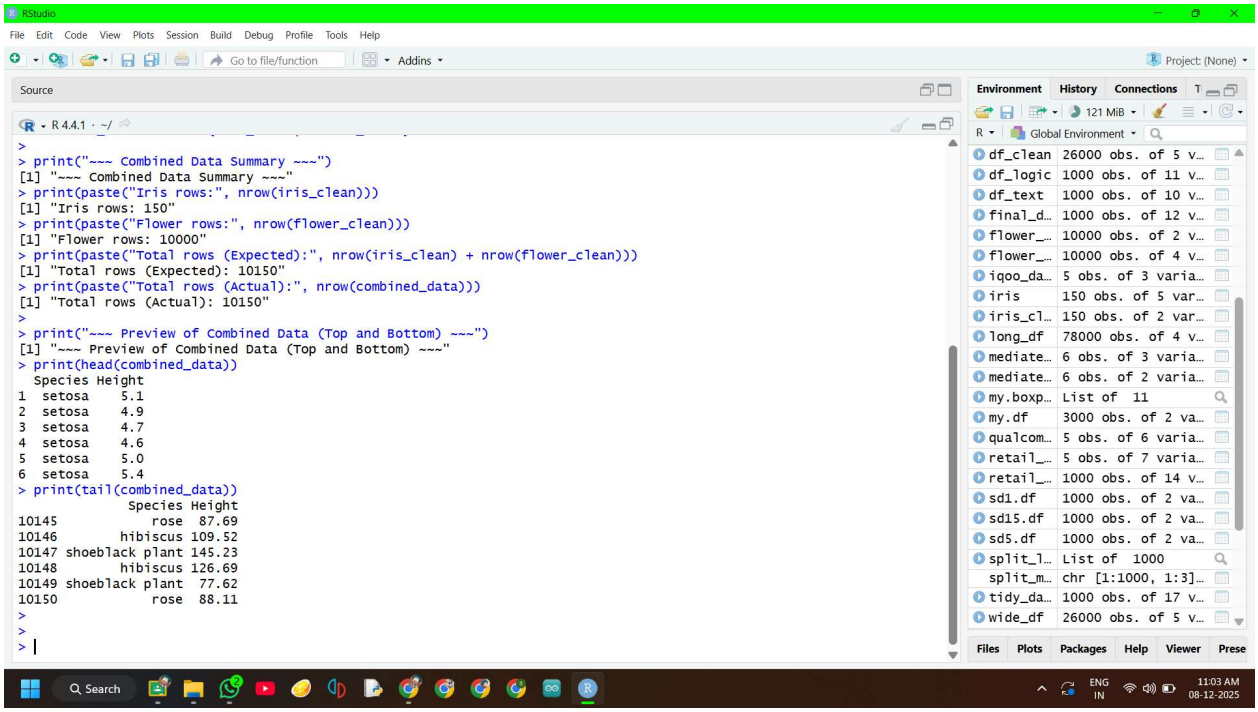
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
Project: (None)
Source
R 4.4.1 · ~/
> print("~~~ Combined Data Summary ~~~")
[1] "~~~ Combined Data Summary ~~~"
> print(paste("Iris rows:", nrow(iris_clean)))
[1] "Iris rows: 150"
> print(paste("Flower rows:", nrow(flower_clean)))
[1] "Flower rows: 10000"
> print(paste("Total rows (Expected):", nrow(iris_clean) + nrow(flower_clean)))
[1] "Total rows (Expected): 10150"
> print(paste("Total rows (Actual):", nrow(combined_data)))
[1] "Total rows (Actual): 10150"
> print("~~~ Preview of Combined Data (Top and Bottom) ~~~")
[1] "~~~ Preview of Combined Data (Top and Bottom) ~~~"
> print(head(combined_data))
Species Height
1 setosa 5.1
2 setosa 4.9
3 setosa 4.7
4 setosa 4.6
5 setosa 5.0
6 setosa 5.4
> print(tail(combined_data))
Species Height
10145 rose 87.69
10146 hibiscus 109.52
10147 shoeblack plant 145.23
10148 hibiscus 126.69
10149 shoeblack plant 77.62
10150 rose 88.11
Environment History Connections
121 MiB
Global Environment
df_clean 26000 obs. of 5 v...
df_logic 1000 obs. of 11 v...
df_text 1000 obs. of 10 v...
final_d... 1000 obs. of 12 v...
flower_... 10000 obs. of 2 v...
flower_... 10000 obs. of 4 v...
iqoo_da... 5 obs. of 3 varia...
iris 150 obs. of 5 var...
iris_cl... 150 obs. of 2 var...
long_df 78000 obs. of 4 v...
mediate... 6 obs. of 3 varia...
mediate... 6 obs. of 2 varia...
my.boxp... List of 11
my.df 3000 obs. of 2 va...
qualcom... 5 obs. of 6 varia...
retail_... 5 obs. of 7 varia...
retail_... 1000 obs. of 14 v...
sd1.df 1000 obs. of 2 va...
sd15.df 1000 obs. of 2 va...
sd5.df 1000 obs. of 2 va...
split_l... List of 1000
split_m... chr [1:1000, 1:3]...
tidy_da... 1000 obs. of 17 v...
wide_df 26000 obs. of 5 v...
Files Plots Packages Help Viewer Prese
Search
ENG
IN
11:03 AM
08-12-2025