

SETH L.U.J and SIR M.V COLLEGE

PRAC 12

Aim:- Combining datasets vertically (concatenation) using rbind() (R).Write code toCombining datasets vertically (concatenation) using rbind() in R studio.

INPUT:-

```
bats_df <- read.csv("C:/Users/mvlui/Downloads/bats_information.csv")
student_df <- read.csv("C:/Users/mvlui/Downloads/Student_Marks.csv")

lifespan_numeric <- as.numeric(sub(".*", "", bats_df$Average.Lifespan))

bats_clean <- data.frame(
  Name = bats_df$Species,
  Value = lifespan_numeric
)

student_clean <- data.frame(
  Name = student_df$number_courses,
  Value = as.numeric(student_df$Marks)
)

combined_data <- rbind(bats_clean, student_clean)

cat("--- Combined Data Summary ---\n")
cat("Bats rows:", nrow(bats_clean), "\n")
cat("Students rows:", nrow(student_clean), "\n")
cat("Total rows:", nrow(combined_data), "\n")

cat("--- Preview of Combined Data (Top and Bottom) ---\n")
print(head(combined_data))
```

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```
print(tail(combined_data))
```

OUTPUT:-

```
R> print(tail(combined_data))
```

The screenshot shows the RStudio interface with the code for printing the tail of the combined data. The code is as follows:

```
6 bats_clean <- data.frame()
7   Name = bats_df$species
8   Value = Lifespan_numeric
9 
10 student_clean <- data.frame()
11   Name = student_df$number_courses
12   Value = as.numeric(student_df$Marks)
13 
14 combined_data <- rbind(bats_clean, student_clean)
15 
16 cat("... Combined Data Summary ...")
17 cat("Combined Data Summary ---")
18 cat("Bats rows:", nrow(bats_clean), "\n")
19 cat("Students rows:", nrow(student_clean), "\n")
20 cat("Total rows:", nrow(combined_data), "\n")
21 
22 cat("... Preview of combined data (Top and Bottom) ---\n")
23 --- Preview of Combined data (Top and Bottom) ---
24 print(head(combined_data))
25 
26 print(tail(combined_data))
27 
```

The RStudio environment pane shows various objects like bats_df, bats_information, category_pivot, combined_data, df, long_df, student_clean, and combined_df. The file browser pane shows several files including bats_in_5013_PRAC_6.RData, bats_in_5013_PRAC_6.csv, bats_in_5013_PRAC_6.xlsx, bats_information.csv, Cleaned_Student_Mental_Health.csv, Chapter, Custom Office Templates, desktop, DS_Fire_Try, DS_S073, from_pypatp, gearsplus, Old Database, and RExpress.

```
R> print(tail(combined_data))
Bats rows: 39000
Students rows: 100
Total rows: 390100
... Preview of combined data (Top and Bottom) ---
--- Preview of Combined data (Top and Bottom) ---
print(head(combined_data))

Name      Value
1  Vampypterodactylidae (Microbat); Example: Big Brown Bat    NA
2  Vampypterodactylidae (Microbat); Example: Little Brown Bat    NA
3  Vampypterodactylidae (Microbat); Example: Least Bat    NA
4  Vampypterodactylidae (Megabat); Example: Horseshoe Bat    NA
5  Vampypterodactylidae (Megabat); Example: Vampire Bat    NA
6  Vampypterodactylidae (Megabat); Example: Fringed Myotis    NA
> print(tail(combined_data))
Name      Value
10095  8 24.451
10096  6 19.128
10097  3  5.609
10098  4 41.444
10099  7 12.027
10100  1 37.357

```