

SHETH L.U.J AND SIR M.V COLLEGE

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

Write code to Combining datasets vertically (concatenation) using rbind() in R studio.

```
R - R 4.5.2 - ~/
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins
Source
Console Background Jobs
> lung_df <- read.csv("c:/users/mvluc/downloads/survey lung cancer.csv",
+ na.strings = c("", "NA"))
>
> weight_df <- read.csv("c:/users/mvluc/downloads/weight-height.csv",
+ na.strings = c("", "NA"))
>
> print("--- Data Structure Before Transformation ---")
> print(names(lung_df))
[1] "GENDER" "AGE" "SMOKING"
[4] "YELLOW_FINGERS" "ANXIETY" "PEER_PRESSURE"
[7] "CHRONIC_DISEASE" "FATIGUE" "ALLERGY"
[10] "WHEEZING" "ALCOHOL_CONSUMING" "COUGHING"
[13] "SHORTNESS_OF_BREATH" "SWALLOWING_DIFFICULTY" "CHEST_PAIN"
[16] "LUNG_CANCER"
> print(names(weight_df))
[1] "Gender" "Height" "Weight"
>
> lung_clean <- lung_df[, c("GENDER", "AGE")]
> names(lung_clean) <- c("Gender", "value")
> lung_clean$source <- "Age (Lung Survey)"
>
> weight_clean <- weight_df[, c("Gender", "Height")]
> names(weight_clean) <- c("Gender", "value")
> weight_clean$source <- "Height (weight-Height)"
>
> lung_clean$value <- as.numeric(lung_clean$value)
> weight_clean$value <- as.numeric(weight_clean$value)
>
> combined_data <- rbind(lung_clean, weight_clean)
>
> print("--- Combined Data Summary ---")
> print(paste("Lung rows:", nrow(lung_clean)))
[1] "Lung rows: 309"
> print(paste("weight rows:", nrow(weight_clean)))
[1] "weight rows: 10000"
> print(paste("Total rows (Expected):", nrow(lung_clean) + nrow(weight_clean)))
[1] "Total rows (Expected): 10309"
> print(paste("Total rows (Actual):", nrow(combined_data)))
```

```
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Console Background Jobs
> weight_clean$source <- "Height (weight-Height)"
>
> lung_clean$value <- as.numeric(lung_clean$value)
> weight_clean$value <- as.numeric(weight_clean$value)
>
> combined_data <- rbind(lung_clean, weight_clean)
>
> print("--- Combined Data Summary ---")
> print(paste("Lung rows:", nrow(lung_clean)))
[1] "Lung rows: 309"
> print(paste("weight rows:", nrow(weight_clean)))
[1] "weight rows: 10000"
> print(paste("Total rows (Expected):", nrow(lung_clean) + nrow(weight_clean)))
[1] "Total rows (Expected): 10309"
> print(paste("Total rows (Actual):", nrow(combined_data)))
[1] "Total rows (Actual): 10309"
>
> print("--- Preview of Combined Data (Top and Bottom) ---")
> print(head(combined_data))
  Gender value source
1      M  69 Age (Lung Survey)
2      M  74 Age (Lung Survey)
3      F  59 Age (Lung Survey)
4      M  63 Age (Lung Survey)
5      F  63 Age (Lung Survey)
6      F  75 Age (Lung Survey)
> print(tail(combined_data))
  Gender value source
10304 Female 59.09825 Height (weight-Height)
10305 Female 66.17265 Height (weight-Height)
10306 Female 67.06715 Height (weight-Height)
10307 Female 63.86799 Height (weight-Height)
10308 Female 69.03424 Height (weight-Height)
10309 Female 61.94425 Height (weight-Height)
>
> print("Yukta Sonawane S120")
[1] "Yukta Sonawane S120"
```

YUKTA SONAWANE S120

R PROGRAMMING PRACTICAL NO: 12