

**MVLU COLLEGE**  
**Data analysis with SAS/SSPR/R**  
**PRACTICAL NO.12**

**Aim:** 12. Combining datasets vertically (concatenation) using rbind() (R).

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

**INPUT:**

```
amazon_df <- read.csv("D:/S119/DATA ANAN/Amazon.csv", na.strings = c("", "NA",))  
flipkart_df <- read.csv("D:/S119/DATA ANAN/flipkart.csv")  
  
print(names(amazon_df))  
print(names(flipkart_df))  
  
amazon_clean <- amazon_df[, c("Category", "UnitPrice")]  
names(amazon_clean) <- c("Species", "Height")  
  
flipkart_clean <- flipkart_df[, c("maincateg", "actprice")]  
names(flipkart_clean) <- c("Species", "Height")  
  
amazon_clean$Height <- as.numeric(amazon_clean$Height)  
flipkart_clean$Height <- as.numeric(flipkart_clean$Height)  
  
combined_data <- rbind(amazon_clean, flipkart_clean)  
  
print("--- Combined Data Summary ---")  
print(paste("Amazon rows:", nrow(amazon_clean)))  
print(paste("Flipkart rows:" nrow(flipkart_clean)))  
print(paste("Total rows (Expected):", nrow(amazon_clean) + nrow(flipkart_clean)))  
print(paste("Total rows (Actual):", nrow(combined_data)))  
  
print(head(combined_data))  
print(tail(combined_data))
```

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**OUTPUT:**

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# MVLU COLLEGE

## Data analysis with SAS/SSPR/R

### PRACTICAL NO.12

RStudio Environment View showing the Global Environment and User Library.

```

> amazon_df <- read.csv("D:/S119/DATA ANAN/Amazon.csv", na.strings = c("", "NA"))
> flipkart_df <- read.csv("D:/S119/DATA ANAN/flipkart.csv")
>
> print(names(amazon_df))
[1] "orderId"      "Orderdate"    "CustomerID"   "CustomerName"
[5] "ProductID"    "ProductName"   "Category"     "Brand"
[9] "Quantity"     "UnitPrice"    "Discount"     "Tax"
[13] "ShippingCost" "TotalAmount"  "PaymentMethod" "orderstatus"
[17] "City"          "State"        "Country"      "SellerID"
> print(names(flipkart))
[1] "id"           "title"        "Rating"       "maincateg"   "platform"
[6] "actprice"     "norating1"   "noreviews1"  "star_5f"     "star_4f"
[11] "star_3f"      "star_2f"      "star_1f"      "fulfilled"
>
> amazon_clean <- amazon_df[, c("Category", "UnitPrice")]
> names(amazon_clean) <- c("Species", "Height")
>
> flipkart_clean <- flipkart_df[, c("maincateg", "actprice1")]
> names(flipkart_clean) <- c("Species", "Height")
>
> amazon_clean$height <- as.numeric(amazon_clean$height)
> flipkart_clean$height <- as.numeric(flipkart_clean$height)
>
> combined_data <- rbind(amazon_clean, flipkart_clean)
>
> print("--- Combined Data Summary ---")
[1] "--- Combined Data Summary ---"
> print(paste("Amazon rows:", nrow(amazon_clean)))
[1] "Amazon rows: 100000"
> print(paste("Flipkart rows:", nrow(flipkart_clean)))
[1] "Flipkart rows: 5244"
> print(paste("total rows (Expected):", nrow(amazon_clean) + nrow(flipkart_clean)))
[1] "Total rows (Expected): 105244"
> print(paste("total rows (Actual):", nrow(combined_data)))
[1] "Total rows (Actual): 105244"
>
> print(head(combined_data))
  Species Height
1      Books 106.59
2 Home & Kitchen 251.37
3      Clothing 31.3
>
> print(tail(combined_data))
  Species Height
105239 women 4499
10524 women 2
10524 men 129
105242 .. 999
105243 women 495
105244 women 77
  
```

RStudio Environment View showing the Global Environment and User Library.

```

> print("--- Combined Data Summary ---")
[1] "--- Combined Data Summary ---"
> print(paste("Amazon rows:", nrow(amazon_clean)))
[1] "Amazon rows: 100000"
> print(paste("Flipkart rows:", nrow(flipkart_clean)))
[1] "Flipkart rows: 5244"
> print(paste("total rows (Expected):", nrow(amazon_clean) + nrow(flipkart_clean)))
[1] "Total rows (Expected): 105244"
> print(paste("total rows (Actual):", nrow(combined_data)))
[1] "Total rows (Actual): 105244"
>
> print(head(combined_data))
  Species Height
1      Books 106.59
2 Home & Kitchen 251.37
3      Clothing 31.3
4 Home & Kitchen 31.3
5      Clothing 51.64
6      Books 44.73
>
> print(tail(combined_data))
  Species Height
105239 women 4499
10524 women 2
10524 men 129
105242 .. 999
105243 women 495
105244 women 77
  
```