

SHETH L.U.J AND SIR M.V. COLLEGE
SUBJECT NAME: **Data Analysis with SAS / SPSS / R**
Practical No. 12

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

Output:

```
> # FIX: Instead of looking for a specific filename, we ask the user to pick it.
> print("--- ACTION REQUIRED: Please select your FINANCE CSV file (CL_in15...) ---")
[1] "--- ACTION REQUIRED: Please select your FINANCE CSV file (CL_in15...) ---"
> finance_df <- read.csv(file.choose())
> print("--- ACTION REQUIRED: Please select your CRICKET CSV file (Fastest Fifties...) ---")
[1] "--- ACTION REQUIRED: Please select your CRICKET CSV file (Fastest Fifties...) ---"
> cricket_df <- read.csv(file.choose())
> print("--- Data Structure Before Transformation ---")
[1] "--- Data Structure Before Transformation ---"
> print(names(finance_df))
[1] "datetime" "symbol"    "open"      "high"      "low"      "close"     "volume"
> print(names(cricket_df))
[1] "X"        "Player"    "Runs"      "BF"        "X4s"      "X6s"       "Against"   "Venue"
[9] "Match.Date"
> # 2.1 Prepare Financial Data
> # Ensure we are using the exact column names from your file (lowercase 'symbol' and 'close')
> finance_clean <- finance_df[, c("symbol", "close")]
> names(finance_clean) <- c("Entity_Name", "Numeric_Value")
> # 2.2 Prepare Cricket Data
> # Ensure we are using the exact column names from your file ('Player' and 'Runs')
> cricket_clean <- cricket_df[, c("Player", "Runs")]
> names(cricket_clean) <- c("Entity_Name", "Numeric_Value")
> # Ensure both numeric columns are actually numeric to prevent errors during binding
> finance_clean$Numeric_Value <- as.numeric(finance_clean$Numeric_Value)
> cricket_clean$Numeric_Value <- as.numeric(cricket_clean$Numeric_Value)
> # Now that columns match exactly (Entity_Name, Numeric_Value), we can stack them.
> combined_data <- rbind(finance_clean, cricket_clean)

> combined_data <- rbind(finance_clean, cricket_clean)
> print("--- Combined Data Summary ---")
[1] "--- Combined Data Summary ---"
> print(paste("Finance rows:", nrow(finance_clean)))
[1] "Finance rows: 6062"
> print(paste("Cricket rows:", nrow(cricket_clean)))
[1] "Cricket rows: 1366"
> print(paste("Total rows (Actual):", nrow(combined_data)))
[1] "Total rows (Actual): 7428"
> print("--- Preview of Combined Data ---")
[1] "--- Preview of Combined Data ---"
> print(head(combined_data)) # will show NYMEX data
  Entity_Name Numeric_Value
1  NYMEX:CL1!          69.44
2  NYMEX:CL1!          69.35
3  NYMEX:CL1!          69.38
4  NYMEX:CL1!          69.42
5  NYMEX:CL1!          69.39
6  NYMEX:CL1!          69.38
> print(tail(combined_data)) # will show Cricket Player data
  Entity_Name Numeric_Value
7423    KL Rahul           61
7424 Faf du Plessis         76
7425  Rishabh Pant          58
7426 Jonny Bairstow         63
7427    KL Rahul           60
7428 David Warner          57
>
> |
```