

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

Aim:- Generating Descriptive Statistics Using Summary()
Or Describe () in R

The screenshot shows the RStudio interface with the following details:

- Console Tab:** Displays R code and its output. The code includes loading packages like dplyr and psych, reading a CSV file, and performing descriptive statistics on variables X1 and Y2.
- Environment Tab:** Shows a list of available datasets and their descriptions.
- File Explorer:** Shows the local file system structure with files and folders related to practical work.
- Bottom Status Bar:** Shows system information including battery level (11:29), language (ENG IN), and date (15-12-2025).

```
> library(dplyr)
Attaching package: 'dplyr'
The following objects are masked from 'package:stats':
  filter, lag
The following objects are masked from 'package:base':
  intersect, setdiff, setequal, union
> library(psych)
> df <- read.csv("ENB2012.data.csv")
> print("Practical 1: Descriptive Statistics ---")
[1] "--- Practical 1: Descriptive Statistics ---"
> print("Summary of Heating Load (Y1):")
[1] "Summary of Heating Load (Y1):"
> summary(df$Y1)
   Min. 1st Qu. Median Mean 3rd Qu. Max.
6.01 12.99 18.95 22.31 31.67 43.10
> print("Detailed Description of Cooling Load (Y2):")
[1] "Detailed Description of Cooling Load (Y2):"
> describe(df$Y2)
vars n mean sd median trimmed mad min max range skew kurtosis se
X1 1 768 24.59 9.51 22.08 23.95 11.18 10.9 48.03 37.13 0.39 -1.15 0.34
>
```

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SUBJECT:- Data Analysis With SAS / SPSS / R