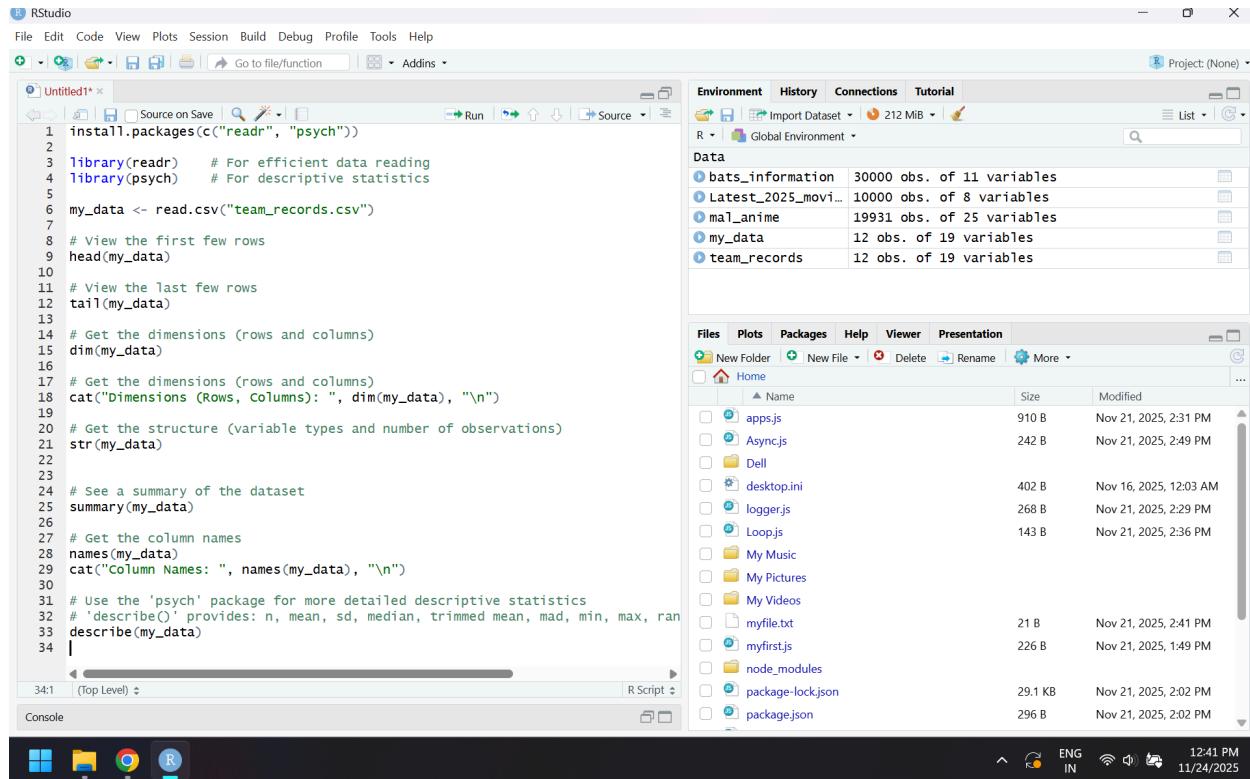


**SHETH L.U.J. & SIR M.V. COLLEGE OF SCIENCE**  
**SUBJECT - Data Analysis with SAS / SPSS / R**

Aim - Exploring data: View() or print() (R).

Input :



The screenshot shows the RStudio interface. The Source editor contains R code for data exploration:

```
1 install.packages(c("readr", "psych"))
2
3 library(readr) # For efficient data reading
4 library(psych) # For descriptive statistics
5
6 my_data <- read.csv("team_records.csv")
7
8 # View the first few rows
9 head(my_data)
10
11 # View the last few rows
12 tail(my_data)
13
14 # Get the dimensions (rows and columns)
15 dim(my_data)
16
17 # Get the dimensions (rows and columns)
18 cat("Dimensions (Rows, Columns): ", dim(my_data), "\n")
19
20 # Get the structure (variable types and number of observations)
21 str(my_data)
22
23
24 # See a summary of the dataset
25 summary(my_data)
26
27 # Get the column names
28 names(my_data)
29 cat("Column Names: ", names(my_data), "\n")
30
31 # Use the 'psych' package for more detailed descriptive statistics
32 # 'describe()' provides: n, mean, sd, median, trimmed mean, mad, min, max, ran
33 describe(my_data)
34 |
```

The Global Environment browser shows the following objects:

Object	Type	Size	Modified
bats_information	Global Environment	30000 obs. of 11 variables	Nov 21, 2025, 2:31 PM
Latest_2025_mov...	Global Environment	10000 obs. of 8 variables	Nov 21, 2025, 2:31 PM
mal_anime	Global Environment	19931 obs. of 25 variables	Nov 21, 2025, 2:31 PM
my_data	Global Environment	12 obs. of 19 variables	Nov 21, 2025, 2:31 PM
team_records	Global Environment	12 obs. of 19 variables	Nov 21, 2025, 2:31 PM

The File browser shows the following files:

Name	Size	Modified
apps.js	910 B	Nov 21, 2025, 2:31 PM
Asyncjs	242 B	Nov 21, 2025, 2:49 PM
Dell		
desktop.ini	402 B	Nov 16, 2025, 12:03 AM
logger.js	268 B	Nov 21, 2025, 2:29 PM
Loop.js	143 B	Nov 21, 2025, 2:36 PM
My Music		
My Pictures		
My Videos		
myfile.txt	21 B	Nov 21, 2025, 2:41 PM
myfile1.js	226 B	Nov 21, 2025, 1:49 PM
node_modules		
package-lock.json	29.1 KB	Nov 21, 2025, 2:02 PM
package.json	296 B	Nov 21, 2025, 2:02 PM

Output :

Name - Mithil Kadam  
Roll No - S083

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```
> my_data <- read.csv("team_records.csv")
> # View the first few rows
> head(my_data)

  Team Matches_played Matches_won Matches_lost Total_pts Avg_pts
1 Patna Pirates          22         10         11     844  38.36
2 Telugu Titans          21         12          9     789  37.57
3 Puneri Paltan          21         14          7     792  37.71
4 Haryana Steelers       19         10          9     724  38.11
5 Bengaluru Bulls         20         11          8     721  36.05
6 Bengal Warriorz         18          6         12     698  38.78

  Successful_raids Successful_tackles Raid_pts Tackle_pts Avg_raid_pts
1             413              187     516      201        23.25
2             356              209     458      227        21.81
3             351              220     420      244        20.00
4             321              195     407      223        21.42
5             318              203     401      221        20.05
6             369              146     462      160        25.67

  Avg_tackle_pts Super_tackles DOD_raid_pts Total_pts_conceded Super_raids
1            9.14            22           65            812            11
2           10.81            18           63            744             8
3           11.62            27           52            728            11
4           11.74            28           43            709             8
5           11.05            19           56            662             7
6            8.89            16           24            807             8

  Total_raids All_outs_inflicted All_outs_conceded
1            912                35            24
2            864                28            28
3            844                39            20
4            790                31            30
5            815                28            21
6            751                20            34

> # View the last few rows
> tail(my_data)

  Team Matches_played Matches_won Matches_lost Total_pts
7 Dabang Delhi KC          20         15          5     705
8 Jaipur Pink Panthers      20          9         11     665
9 U. Mumbai                 10         10          0     663
```

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Team	matches_played	matches_won	matches_lost	Total_pts
7 Dabang Delhi KC	20	15	5	705
8 Jaipur Pink Panthers	20	9	11	665
9 U Mumba	19	10	9	663
10 Tamil Thalaivas	18	6	12	621
11 UP Yoddhas	18	7	11	596
12 Gujrat Giants	18	6	12	577
Avg_pts	Successful_raids	Successful_tackles	Raid_pts	Tackle_pts
7 35.25	299	199	395	207
8 33.25	310	171	385	188
9 34.89	288	194	352	219
10 34.50	285	182	354	195
11 33.11	284	159	365	164
12 32.06	247	170	319	191
Avg_raid_pts	Avg_tackle_pts	Super_tackles	DOD_raid_pts	Total_pts_conceded
7 19.75	10.35	10	65	681
8 19.25	9.40	19	45	735
9 18.53	11.53	27	47	687
10 19.67	10.83	14	42	656
11 20.28	9.11	6	43	666
12 17.72	10.61	23	53	662
Super_raids	Total_raids	All_outs_inflicted	All_outs_conceded	
7 20	796	30	20	
8 9	830	21	28	
9 11	807	20	25	
10 8	738	21	27	
11 11	762	17	28	
12 5	761	18	23	

```

> # Get the dimensions (rows and columns)
> dim(my_data)
[1] 12 19
> # Get the dimensions (rows and columns)
> cat("Dimensions (Rows, Columns): ", dim(my_data), "\n")
Dimensions (Rows, Columns): 12 19
> # Get the structure (variable types and number of observations)
> str(my_data)
'data.frame': 12 obs. of 19 variables:

```

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```
> # Get the dimensions (rows and columns)
> cat("Dimensions (Rows, Columns): ", dim(my_data), "\n")
Dimensions (Rows, Columns): 12 19
> # Get the structure (variable types and number of observations)
> str(my_data)
'data.frame': 12 obs. of 19 variables:
 $ Team : chr "Patna Pirates" "Telugu Titans" "Puneri Paltan" "Hary
ana Steelers" ...
 $ Matches_played : int 22 21 21 19 20 18 20 20 19 18 ...
 $ Matches_won : int 10 12 14 10 11 6 15 9 10 6 ...
 $ Matches_lost : int 11 9 7 9 8 12 5 11 9 12 ...
 $ Total_pts : int 844 789 792 724 721 698 705 665 663 621 ...
 $ Avg_pts : num 38.4 37.6 37.7 38.1 36 ...
 $ Successful_raids : int 413 356 351 321 318 369 299 310 288 285 ...
 $ Successful_tackles: int 187 209 220 195 203 146 199 171 194 182 ...
 $ Raid_pts : int 516 458 420 407 401 462 395 385 352 354 ...
 $ Tackle_pts : int 201 227 244 223 221 160 207 188 219 195 ...
 $ Avg_raid_pts : num 23.2 21.8 20 21.4 20.1 ...
 $ Avg_tackle_pts : num 9.14 10.81 11.62 11.74 11.05 ...
 $ Super_tackles : int 22 18 27 28 19 16 10 19 27 14 ...
 $ DOD_raid_pts : int 65 63 52 43 56 24 65 45 47 42 ...
 $ Total_pts_conceded: int 812 744 728 709 662 807 681 735 687 656 ...
 $ Super_raids : int 11 8 11 8 7 8 20 9 11 8 ...
 $ Total_raids : int 912 864 844 790 815 751 796 830 807 738 ...
 $ All_outs_inflicted: int 35 28 39 31 28 20 30 21 20 21 ...
 $ All_outs_conceded : int 24 28 20 30 21 34 20 28 25 27 ...
> # See a summary of the dataset
> summary(my_data)
      Team      Matches_played    Matches_won    Matches_lost
Length:12   Min.   :18.00   Min.   : 6.000   Min.   : 5.000
Class :character  1st Qu.:18.00  1st Qu.: 6.750  1st Qu.: 8.750
Mode  :character  Median :19.50  Median :10.000  Median :10.000
                  Mean   :19.50  Mean   : 9.667  Mean   : 9.667
                  3rd Qu.:20.25  3rd Qu.:11.250  3rd Qu.:11.250
                  Max.   :22.00   Max.   :15.000   Max.   :12.000
      Total_pts     Avg_pts      Successful_raids Successful_tackles
Min       :577.0   Min       :32.06   Min       :217.0   Min       :116.0
```

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```

Total_pts      Avg_pts      Successful_raids  Successful_tackles
Min. :577.0   Min. :32.06   Min. :247.0     Min. :146.0
1st Qu.:652.5 1st Qu.:34.19  1st Qu.:287.2   1st Qu.:170.8
Median :701.5  Median :35.65  Median :314.0    Median :190.5
Mean   :699.6   Mean   :35.80  Mean   :320.1    Mean   :186.2
3rd Qu.:740.2  3rd Qu.:37.81 3rd Qu.:352.2   3rd Qu.:200.0
Max.   :844.0   Max.   :38.78  Max.   :413.0    Max.   :220.0
Raid_pts      Tackle_pts   Avg_raid_pts   Avg_tackle_pts
Min. :319.0   Min. :160.0   Min. :17.72    Min. : 8.890
1st Qu.:362.2 1st Qu.:190.2  1st Qu.:19.57   1st Qu.: 9.335
Median :398.0  Median :204.0  Median :20.02    Median :10.710
Mean   :402.8   Mean   :203.3  Mean   :20.62    Mean   :10.423
3rd Qu.:429.5  3rd Qu.:221.5 3rd Qu.:21.52   3rd Qu.:11.170
Max.   :516.0   Max.   :244.0  Max.   :25.67    Max.   :11.740
Super_tackles DOD_raid_pts Total_pts_conceded Super_raids
Min. : 6.00   Min. :24.00   Min. :656.0    Min. : 5.00
1st Qu.:15.50 1st Qu.:43.00  1st Qu.:665.0   1st Qu.: 8.00
Median :19.00  Median :49.50  Median :698.0    Median : 8.50
Mean   :19.08   Mean   :49.83  Mean   :712.4    Mean   : 9.75
3rd Qu.:24.00  3rd Qu.:57.75 3rd Qu.:737.2   3rd Qu.:11.00
Max.   :28.00   Max.   :65.00  Max.   :812.0    Max.   :20.00
Total_raids    All_outs_inflicted All_outs_conceded
Min. :738.0   Min. :17.00   Min. :20.00
1st Qu.:761.8 1st Qu.:20.00  1st Qu.:22.50
Median :801.5  Median :24.50  Median :26.00
Mean   :805.8   Mean   :25.67  Mean   :25.67
3rd Qu.:833.5  3rd Qu.:30.25 3rd Qu.:28.00
Max.   :912.0   Max.   :39.00  Max.   :34.00
> # Get the column names
> names(my_data)
[1] "Team"                  "Matches_played"        "Matches_won"
[4] "Matches_lost"           "Total_pts"            "Avg_pts"
[7] "Successful_raids"       "Successful_tackles"  "Raid_pts"
[10] "Tackle_pts"             "Avg_raid_pts"         "Avg_tackle_pts"
[13] "Super_tackles"          "DOD_raid_pts"         "Total_pts_conceded"
[16] "Super_raids"            "Total_raids"          "All_outs_inflicted"
[19] "All_outs_conceded"

```

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```
1st Qu.:15.50    1st Qu.:43.00    1st Qu.:665.0    1st Qu.: 8.00
Median :19.00    Median :49.50    Median :698.0    Median : 8.50
Mean   :19.08    Mean   :49.83    Mean   :712.4    Mean   : 9.75
3rd Qu.:24.00    3rd Qu.:57.75    3rd Qu.:737.2    3rd Qu.:11.00
Max.   :28.00    Max.   :65.00    Max.   :812.0    Max.   :20.00
Total_raids      All_outs_inflicted All_outs_conceded
Min.   :738.0    Min.   :17.00    Min.   :20.00
1st Qu.:761.8    1st Qu.:20.00    1st Qu.:22.50
Median :801.5    Median :24.50    Median :26.00
Mean   :805.8    Mean   :25.67    Mean   :25.67
3rd Qu.:833.5    3rd Qu.:30.25    3rd Qu.:28.00
Max.   :912.0    Max.   :39.00    Max.   :34.00
> # Get the column names
> names(my_data)
[1] "Team"          "Matches_played"   "Matches_won"
[4] "Matches_lost"  "Total_pts"        "Avg_pts"
[7] "Successful_raids" "Successful_tackles" "Raid_pts"
[10] "Tackle_pts"    "Avg_raid_pts"    "Avg_tackle_pts"
[13] "Super_tackles" "DOD_raid_pts"    "Total_pts_conceded"
[16] "Super_raids"   "Total_raids"     "All_outs_inflicted"
[19] "All_outs_conceded"
> cat("Column Names: ", names(my_data), "\n")
Column Names: Team Matches_played Matches_won Matches_lost Total_pts Avg_pts Successful_raids Successful_tackles Raid_pts Tackle_pts Avg_raid_pts Avg_tackle_pts Super_tackles DOD_raid_pts Total_pts_conceded Super_raids Total_raids All_outs_inflicted All_outs_conceded
> # Use the 'psych' package for more detailed descriptive statistics
> # 'describe()' provides: n, mean, sd, median, trimmed mean, mad, min, max, range, skew, kurtosis, and se.
> describe(my_data)
```

Error in describe(my\_data) : could not find function "describe"

Show Traceback  
Rerun with Debug

> |