

## **PRACTICAL NO 3**

**AIM :** Exploring data: View() or print() (R).

### **Output:**

The screenshot shows the RStudio interface with the following details:

- Console:** Displays the R session history. The user has loaded the "readr" and "psych" libraries, read a CSV file named "Shark Tank Brasil dataset.csv" into a variable "my\_data", and then printed the first few rows of the data frame.
- Environment:** Shows the global environment with various objects and their sizes.
- Files:** Shows the local file system structure under "C:\Users\PRYANKA\Downloads".
- Plots:** Shows no plots.
- Packages:** Shows no packages.
- Help:** Shows no help topics.
- View:** Shows no views.
- Tools:** Shows no tools.
- Session:** Shows the current R version (4.5.2) and memory usage (226 Mb).
- Help:** Shows no help topics.

The data frame "my\_data" contains approximately 519 observations and 14 variables. Below is a partial representation of the data:

Season.Number	Startup.Name	Episode.Number	Pitch.Number	Season.Start	Season.End	Original.Air.Date	Industry	Business.Description	Company.Website
1	Gourmetzinho	1	1	10-Oct-2016	26-Jan-2017	10-Oct-2016	Food and Beverage	Healthy, frozen baby food/meals for children	NA
2	RevoFoot	1	2	10-Oct-2016	26-Jan-2017	10-Oct-2016	Health/wellness	Prosthetic feet, aiming for a lighter, more durable, and accessible product using innovative materials	NA
3	Velo	1	3	10-Oct-2016	26-Jan-2017	10-Oct-2016	Children/Education	Bicycle parts, electric bikes and scooters	NA
4	BostaEmata	1	4	10-Oct-2016	26-Jan-2017	10-Oct-2016	Business Services	Organic fertilizer, product for urban gardeners	NA
5	M'AnaManutenção	2	5	10-Oct-2016	26-Jan-2017	17-Oct-2016	Technology/Software	platform/app for hiring female-led maintenance and repair services	NA
6	PensysTecnologia	2	6	10-Oct-2016	26-Jan-2017	17-Oct-2016	Business Services	business management or individual automation space	NA

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## Subject : Data Analysis with SAS / SPSS /R

```

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>
> # View the last few rows
> cat("n--- tail(my_data) ---n")
--- tail(my_data) ---
  Season.Number Startup.Name Episode.Number Pitch.Number Season.Start Season.End Original.Air.Date Industry
514          10  BRASolution           9      515 22-Sep-2025 10-Nov-2025 20-Oct-2025 Business Services
515          10       Hoomy          10      516 22-Sep-2025 10-Nov-2025 23-Oct-2025 Lifestyle/Home
516          10  PretaPorter          10      517 22-Sep-2025 10-Nov-2025 23-Oct-2025 Liquor/Alcohol
517          10     Box2x7           11      518 22-Sep-2025 10-Nov-2025 27-Oct-2025 Lifestyle/Home
518          10  Freshfemme          11      519 22-Sep-2025 10-Nov-2025 27-Oct-2025 Health/wellness
519          10   JhowBatata          11      520 22-Sep-2025 10-Nov-2025 27-Oct-2025 Food and Beverage
                                         Business.Description Company.Website Entrepreneur.Names Original.Ask.Amount
514                               specific industrial solution or product NA NA
515                               Bed, Bath, and Tableware items NA NA
516                               beer brand with a strong identity, producing a "Black IPA" NA NA
517                               micro-loactions focused on promoting conscious consumption NA NA
518                               intimate wipes and hygiene products specifically designed for women NA NA
519                               potato-based product NA NA
Original.Offered.Equity Valuation.Requested Got.Deal Total.Deal.Amount Total.Deal.Equity Deal.Valuation Loan.Deal.Has.Conditions
514             NA NA 0 NA NA NA NA
515             NA NA 0 NA NA NA NA
516             NA NA 1 150000 20 750000
517             NA NA 1 300000 10 300000
518             NA NA 1 150000 25 600000
519             NA NA 0 NA NA NA NA
Number.of.Sharks.in.Deal Investment.Amount.Per.Shark Equity.Per.Shark Mentoring Invested.Shark.Names
514             NA NA NA NA
515             NA NA NA NA
516             1 150000 20 Camila Farani
517             1 300000 10 João Appolinario
518             1 150000 25 Luiza Trajano
519             NA NA NA NA
  
```

Watchlist Ideas

Search

2045 ENG IN 25-11-2025

```

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>
> # Get the dimensions (rows and columns)
> cat("n--- dim(my_data) ---n")
--- dim(my_data) ---
> Cat("Dimensions (Rows, Columns): ", dim(my_data), "n")
Dimensions (Rows, Columns): 519 25
>
> # Check structure (types of variables)
> cat("n--- str(my_data) ---n")
--- str(my_data) ---
> str(my_data)
'data.frame': 519 obs. of 25 variables:
 $ Season.Number : int 1 1 1 1 1 1 1 1 1 ...
 $ Startup.Name  : chr "Gourmetzinho" "RevFoot" "Velo" "BostaEmLata" ...
 $ Episode.Number: int 1 1 1 1 2 2 2 2 3 3 ...
 $ Pitch.Number  : int 1 2 3 4 5 6 7 8 9 10 ...
 $ Season.Start  : chr "10-oct-2016" "10-oct-2016" "10-oct-2016" "10-oct-2016" ...
 $ Season.End    : chr "26-Jan-2017" "26-Jan-2017" "26-Jan-2017" "26-Jan-2017" ...
 $ Original.Air.Date: chr "10-oct-2016" "10-oct-2016" "10-oct-2016" "10-oct-2016" ...
 $ Industry      : chr "Food and Beverage" "Health/wellness" "Children/Education" "Business Services" ...
 $ Business.Description: chr "Healthy, frozen baby food/meals for children" "Prosthetic feet, aiming for a lighter, more durable, and accessible product using innovative materials" "Bicycle parts, electric bikes and scooters" "Organic fertilizer, product for urban gardeners" ...
 $ Company.Website: logi NA NA NA NA NA ...
 $ Entrepreneur.Names: chr " " " " " " "
 $ Original.Ask.Amount: int 500000 400000 400000 150000 100000 300000 800000 500000 185000 295000 ...
 $ Original.Offered.Equity: int 2500000 2000000 4000000 1500000 1000000 3000000 6000000 20000000 25000000 1233333 5900000 ...
 $ Valuation.Requested: int 20000000 20000000 40000000 20000000 10000000 6000000 20000000 25000000 1233333 5900000 ...
 $ Got.Deal: int 0 0 0 0 0 0 0 0 0 0 ...
 $ Total.Deal.Amount: int NA NA NA NA NA 300000 NA NA ...
 $ Total.Deal.Equity: num NA NA NA NA NA 10 NA NA ...
 $ Deal.Valuation: int NA NA NA NA NA 3000000 NA NA ...
 $ Loan: chr " " " " " ...
 $ Deal.Has.Conditions: chr " " " " " ...
 $ Number.of.Sharks.in.Deal: int NA NA NA NA NA 2 NA NA ...
 $ Investment.Amount.Per.Shark: num NA NA NA NA NA 150000 NA NA ...
 $ Equity.Per.Shark: num NA NA NA NA NA 5 NA NA ...
 $ Mentoring: chr " " " " " ...
 $ Invested.Shark.Names: chr " " " " " ...
  
```

Watchlist Ideas

Search

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Subject : Data Analysis with SAS / SPSS /R

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

Console Terminal Background Jobs

R > R 4.5.2 - C:/Users/PRIVANKA/Downloads/

> mentoring

\$ Invested.Shark.Names : chr "chr" "chr" "chr" ...

> # Summary of dataset

> cat("\n--- summary(my\_data) ---\n")

---

summary(my\_data) ---

> print(summary(my\_data))

Season..Number Startup.Name Episode.Number Pitch.Number Season.Start Season.End Original.Air.Date

Min. : 1.0000 Length:519 Min. : 1.0000 Min. : 1.0000 Length:519 Length:519 Length:519

1st Qu.: 1.0000 Class :character 1st Qu.: 4.00 1st Qu.: 130.5 Class :character Class :character Class :character

Median : 5.0000 Mode :character Median : 261.0 Mode :character Mode :character Mode :character

Mean : 5.004 Mean : 7.79 Mean : 260.5

3rd Qu.: 7.0000 3rd Qu.: 11.00 3rd Qu.: 390.5

Max. :10.0000 Max. :20.00 Max. :520.0

Industry Business.Description Company.Website Entrepreneur.Names Original.Ask.Amount Original.offered.Equity

Length:519 Length:519 Mode:logical Length:519 Min. : 5 Min. : 4.00

Class :character Class :character NA's:519 Class :character 1st Qu.: 195000 1st Qu.:10.00

Mode :character Mode :character Mode :character Median : 250000 Median :10.00

Mean : 312029 Mean :11.33

3rd Qu.: 400000 3rd Qu.: 10.00

Max. :20000000 Max. :50.00

NA's :280 NA's :280 NA's :280

Valuation.Requested Got.Deal Total.Deal.Amount Total.Deal.Equity Deal.valuation Loan Deal.Has.Conditions

Min. : 17 Min. :0.0000 Min. : 100000 Min. : 1.00 Min. : 250000 Length:519 Length:519

1st Qu.: 150000 1st Qu.: 0.0000 1st Qu.: 150000 1st Qu.:15.00 1st Qu.: 666667 Class :character Class :character

Median : 2000000 Median : 0.0000 Median : 200000 Median :20.00 Median : 1000000 Mode :character Mode :character

Mean : 5689378 Mean : 4506 Mean : 269737 Mean :21.49 Mean : 1932251

3rd Qu.: 4000000 3rd Qu.:1.0000 3rd Qu.: 300000 3rd Qu.:25.00 3rd Qu.: 200000

Max. :40000000 Max. :1.0000 Max. :200000 Max. :60.00 Max. :66666667

NA's :282 NA's :13 NA's :291 NA's :291 NA's :291

Number.of.Sharks.in.Deal Investment.Amount.Per.Shark Equity.Per.Shark Mentoring Invested.Shark.Names

Min. :1.0000 1st Qu.:1.0000 1st Qu.: 150000 1st Qu.:15.00 Length:519 Length:519

Median :1.0000 Median : 200000 Median :20.00 Median : character Class :character Class :character

Mean :1.276 Mean : 234020 Mean :19.78

3rd Qu.:1.0000 3rd Qu.: 300000 3rd Qu.:25.00

Max. :5.0000 Max. :1500000 Max. :40.00

NA's :291 NA's :291 NA's :291

>

Watchlist Ideas

Project: (None)

Environment History Connection

Global Environment

high\_r\_ 107 obs. of 10

Housing 545 obs. of 13

housin... 545 obs. of 13

low\_co\_ 71 obs. of 13 v...

low\_ip\_ 10000 obs. of 1...

my\_data 519 obs. of 25

pref\_a\_ 24 obs. of 13 v...

Shark... 519 obs. of 13 v...

specia... 59 obs. of 13 v...

Files Plots Packages Help View

C:\Users\PRIVANKA\Downloads...

1-Limitless-Paper-Grade-7.pdf

1-mATHS.pdf

1-Motion in -390--OK-Ok.pmd

1-Phy-DPP-1 - Motion in a straight-line.pmd

1-Teachers-1 (1).pmd

1-Teachers-1 (2).pmd

1-Teachers-1.pmd

1-XI - All Branch.pmd

2-mATHS.pdf

2-Phy-DPP-2 - Motion in a straight-line.pmd

2-XII - All Branch1).pmd

2-XII - All Branch.pmd

2. Kingdom Plantae.pmd

3-CHAM-1.pdf

3-PCM-1.pdf

Print Bookmarks (Open) PMAD

Search

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RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

Console Terminal Background Jobs

R - R 4.5.2 - C:/Users/PRIYANKA/Downloads/

```
Mean :1.276 Mean : 234020 Mean :19.78
3rd Qu.:1.000 3rd Qu.: 300000 3rd Qu.:25.00
Max. :5.000 Max. :1500000 Max. :40.00
NA's :291 NA's :291 NA's :291

> # Column names
> cat("\n--- names(my_data) ---\n")

--- names(my_data) ---
> cat("Column Names: ", names(my_data), "\n")
Column Names: Season.Number Startup.Name Episode.Number Pitch.Number Season.Start Season.End Original.Air.Date Industry Business.Description Company.Web
site Entrepreneur.Names Original.Ask.Amount Original.Offered.Equity Valuation.Requested Got.Deal Total.Deal.Amount Total.Deal.Equity Deal.Valuation
Loan.Deals.HConditions Number.of.Sharks.in.Deal Investment.Amount.Per.Shark Equity.Per.Shark Mentoring.Invested.Shark.Names

> # Detailed descriptive statistics (using the 'psych' package)
> cat("\n--- describe(my_data) ---\n")

--- describe(my_data) ---
> print(describe(my_data))

   vars   n    mean      sd median trimmed    mad    min    max range skew kurtosis
Season.Number     1 519    5.00    2.76     5   4.94    2.97    1    10    9  0.18  -1.13
Startup.Name*    2 519  259.18   149.72   259  259.10  192.74    1   518  517  0.00  -1.21
Episode.Number   3 519    7.79    4.45     8    7.60    5.93    1    20    19  0.31  -0.73
Pitch.Number     4 519   260.52   150.40   261  260.53  192.74    1   520  519  0.00  -1.21
Season.Start*    5 519    5.34    2.95     5   5.32    4.45    1    10    9  0.03  -1.34
Season.End*      6 519    5.92    2.71     6   5.97    2.77    1    10    9  0.10  -1.08
Original.Air.*   7 519   71.01   41.01    72   71.42   51.89    1   141  140  -0.02  -1.22
Original.Ask.*   8 519    8.11    4.34     7    7.94    4.45    1    15    14  0.40  -1.16
Original.Offered.Equity* 9 519   258.01   149.96   258  258.00  192.74    1   517  516  0.00  -1.21
Business.Description* 10 0       NaN     NaN     NaN     NaN     Inf  -Inf  -Inf  -Inf  -Inf  -Inf
Company.Webpage* 11 519    1.01    0.16     1    1.00    0.00    1     4    3  15.52  253.68
Entrepreneur.Names* 12 239 512029.31 1775052.71 2500000 273963.73 148260.00 5 20000000 19999995 8.71  80.78
Original.Ask.Amount* 13 239    11.33    6.58    10   10.13    4.00    4    50    46  2.53  8.10
Original.Offered.Equity* 14 237 5689378.21 26842397.00 2000000 2851465.96 1482600.00 17 400000000 399999983 13.58  194.16
Valuation.Requested* 15 506    0.45    0.50     0    0.44    0.00    0     1    1  0.20  -1.96
Got.Deal*          16 226 269736.84 198631.71 200000 239945.65 74130.00 100000 2000000 1900000 4.51  30.64
Total.Deal.Amount* 17 228    21.49    7.99    20   21.36    7.41    1    60    59  0.52  1.47
Total.Deal.Equity* 18 226 1932251.23 4730762.97 1000000 1268936.30 74130.00 250000 66666667 66416667 11.51 151.48
Lag*               19 519    1.00    0.04     1    1.00    0.00    1     2    1  22.65  512.01
Deal.Hs.Conditions* 20 519    1.00    0.04     1    1.00    0.00    1     2    1  22.65  512.01
Number.of.Characters.in.plot* 21 779    1.50    0.27     1    1.64    0.20    1     2    1  2.50  1.75
```

Watchlist Ideas

Project: (None)

Environment History Connection

high\_ip... 107 obs. of 10 ...
Housing... 545 obs. of 13 ...
housin... 545 obs. of 13 ...
low\_co... 71 obs. of 13 ...
low\_ip... 10000 obs. of 1...
my\_data... 519 obs. of 25 ...
pref\_a... 24 obs. of 13 ...
Shark... 519 obs. of 13 ...
specia... 59 obs. of 13 ...

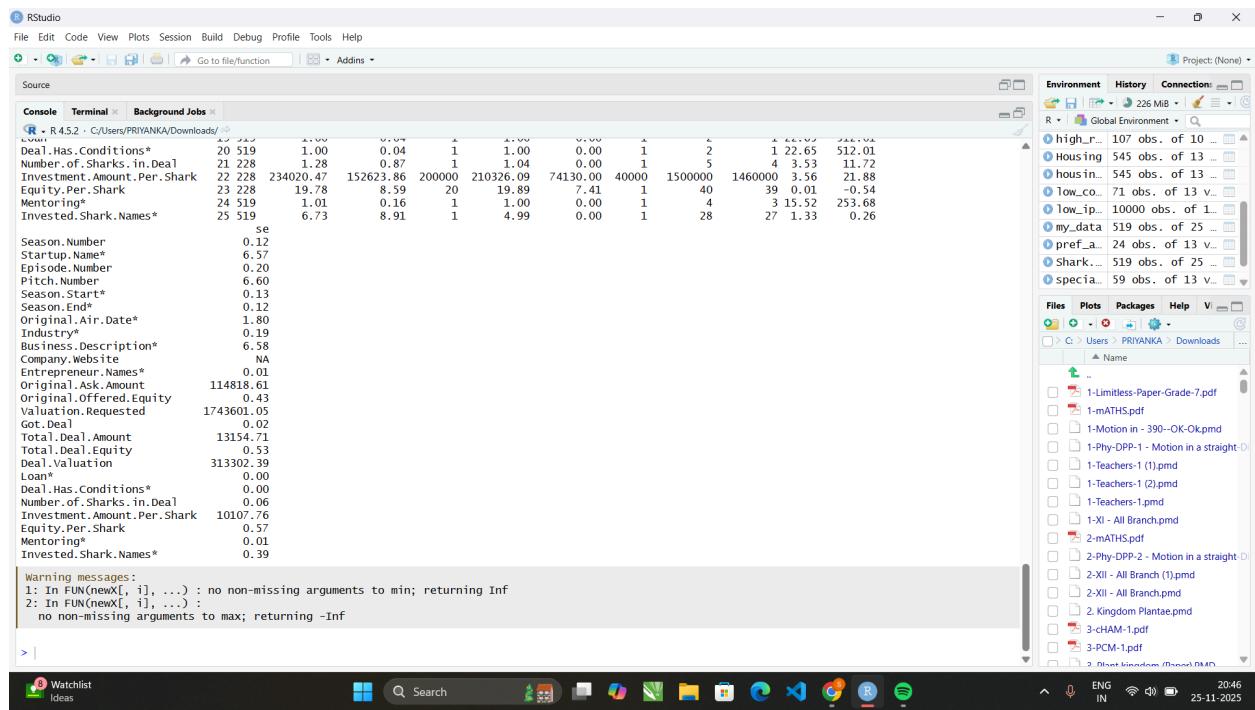
Files Plots Packages Help V

C:\Users\PRIYANKA\Downloads\

1-Limitless-Paper-Grade-7.pdf
1-mATHS.pdf
1-Motion in -390--OK-Ok.pmd
1-Phy-DPP-1 - Motion in a straight-D
1-Teachers-1 (1).pmd
1-Teachers-1 (2).pmd
1-Teachers-1.pmd
1-XI - All Branch.pmd
2-mATHS.pdf
2-Phy-DPP - Motion in a straight-D
2-XI - All Branch (1).pmd
2-XII - All Branch.pmd
2. Kingdom Plantae.pmd
3-CHM-1.pdf
3-PCM-1.pdf
Plant Kingdoms (Plantae).pmd

NAME : SHUBHAM SANJAY KARAPE  
ROLL NO : S085

**SHETH L.U.J. AND SIR M.V. COLLEGE OF ARTS SCIENCE AND COMMERCE**  
**Subject : Data Analysis with SAS / SPSS /R**



The screenshot shows the RStudio interface. The left pane displays a data frame with columns: Deal.Has.Conditions\*, Number.of.Sharks.in.Deal, Investment.Amount.Per.Shark, Equity.Per.Shark, Mentoring\*, Invested.Shark.Names\*, Season.Number, Startup.Name\*, Episode.Number, Pitch.Number, Season.Start\*, Season.End\*, Original.Air.Date\*, Industry\*, Business.Description\*, Company.Website, Entrepreneur.Names\*, Original.Ask.Amount, Original.Offered.Equity, Valuation.Requested, Got.Deal, Total.Deal.Amount, Total.Deal.Equity, Deal.Valuation, Loss, Deal.Has.Conditions\*, Number.of.Sharks.in.Deal, Investment.Amount.Per.Shark, Equity.Per.Shark, Mentoring\*, Invested.Shark.Names\*. The right pane shows the Global Environment, Files, and Packages tabs. The bottom status bar shows the date and time.

```
R 4.5.2 · C:/Users/PRIYANKA/Downloads/...  
Deal.Has.Conditions* 20 519 1.00 0.04 1 1.00 0.00 1 2 1 22.65 NA  
Number.of.Sharks.in.Deal 21 228 1.28 0.87 1 1.04 0.00 1 5 4 3.53 11.72  
Investment.Amount.Per.Shark 22 228 234020.47 152623.86 200000 210326.09 74130.00 40000 1500000 1460000 3.56 21.88  
Equity.Per.Shark 23 228 19.78 8.59 20 19.89 7.41 1 40 39 0.01 -0.54  
Mentoring* 24 519 1.01 0.16 1 1.00 0.00 1 4 3 15.52 253.68  
Invested.Shark.Names* 25 519 6.73 8.91 1 4.99 0.00 1 28 27 1.33 0.26  
Season.Number 0.12  
Startup.Name* 6.57  
Episode.Number 0.20  
Pitch.Number 6.60  
Season.Start* 0.13  
Season.End* 0.12  
Original.Air.Date* 1.80  
Industry* 0.19  
Business.Description* 6.58  
Company.Website NA  
Entrepreneur.Names* 0.01  
Original.Ask.Amount 114818.61  
Original.Offered.Equity 0.43  
Valuation.Requested 1743601.05  
Got.Deal 0.02  
Total.Deal.Amount 13154.71  
Total.Deal.Equity 0.53  
Deal.Valuation 313302.39  
Loss 0.00  
Deal.Has.Conditions* 0.00  
Number.of.Sharks.in.Deal 0.06  
Investment.Amount.Per.Shark 10107.76  
Equity.Per.Shark 0.57  
Mentoring* 0.01  
Invested.Shark.Names* 0.39  
  
Warning messages:  
1: In FUN(newX[, i], ...) : no non-missing arguments to min; returning Inf  
2: In FUN(newX[, i], ...) :  
no non-missing arguments to max; returning -Inf
```

NAME : SHUBHAM SANJAY KARAPE  
ROLL NO : S085