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Practical 3

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

```
install.packages(c("readr", "psych"))
library(readr)
library(psych)

my_data <- read.csv("C:/Users/mvluc/Downloads/simranpython/tips.csv")

head(my_data)
tail(my_data)

cat("dimensions (Rows, columns): ", paste(dim(my_data), collapse = " ", "\n"))

str(my_data)
summary(my_data)

cat("Column Names: ", paste(names(my_data), collapse = " ", "\n"))
describe(my_data)
```

```
R - R 4.5.2 - ~
> my_data <- read.csv("C:/Users/mvluc/Downloads/simranpython/tips.csv")
> my_data <- read.csv("C:/Users/mvluc/Downloads/simranpython/tips.csv")
> head(my_data)
total_bill tip sex smoker day time size
1 16.99 1.01 Female No Sun Dinner 2
2 10.34 1.66 Male No Sun Dinner 3
3 21.01 3.50 Male No Sun Dinner 3
4 23.68 3.30 Male No Sun Dinner 2
5 24.59 3.61 Female No Sun Dinner 4
6 25.29 4.71 Male No Sun Dinner 4
> tail(my_data)
total_bill tip sex smoker day time size
1 35.83 4.67 Female No Sat Dinner 3
2 29.03 5.92 Male No Sat Dinner 3
3 27.18 2.00 Female Yes Sat Dinner 2
4 22.67 2.00 Male Yes Sat Dinner 2
5 17.82 1.75 Male No Sat Dinner 2
6 18.78 3.00 Female No Thur Dinner 2
> cat("dimensions (Rows, columns): ", paste(dim(my_data), collapse = " ", "\n"))
Dimensions (Rows, Columns): 244, 7
> str(my_data)
'data.frame': 244 obs. of 7 variables:
 $ total_bill: num 17.10 3.21 23.7 24.6 ...
 $ tip       : num 1.01 1.66 3.5 3.31 3.61 4.71 2 3.12 1.96 3.23 ...
 $ sex       : chr "Female" "Male" "Male" "Male" ...
 $ smoker    : chr "No" "No" "No" "No" ...
 $ day       : chr "Sun" "Sun" "Sun" "Sun" ...
 $ time      : chr "Dinner" "Dinner" "Dinner" "Dinner" ...
 $ size      : int 2 3 3 2 4 4 2 4 2 2 ...
> summary(my_data)
total_bill   tip   sex   smoker   day
Min.   : 3.07   Min.   :1.00   Female:122   No :122   Sun:122
1st Qu.:13.35  1st Qu.:2.000  Male  :122   Yes:122   Thur:12
Median :17.80  Median :2.900   Mode  :character
Mean   :19.79  Mean   :2.998
3rd Qu.:24.13  3rd Qu.:3.562
Max.   :50.81  Max.   :10.000
tip
Length:244   Min.   :1.00
Class:character 1st Qu.:2.00
Mode :character   Median :2.00
                           Mean  :2.57
                           3rd Qu.:3.00
```