

## Exercise 2

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### 1 Between Groups

Create a data frame with two integer columns, Age and Sex, with the supplied data. Age = 24, 18, 19, 32, 19, 25, 22. Sex = M, F, M, F, F, F, M.

```
###delete all objects in your environment (starting over)

#create an empty data frame

#enter the data using an interactive grid

#make sure Sex is a factor

#print data

#prints the names of the variables

#prints a summary of the data

#for describe() function

#prints various descriptive statistics
```

### 2 Within Groups

Enter the following data in a data frame with three fields, Participant, Before, and After. Participant = 1, 2, 3, 4, 5, 6, 7. Before = 166, 182, 194, 321, 190, 258, 124. After = 160, 142, 167, 207, 192, 198, 100.

```
#create three integer vectors
```

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```
#create data frame named data2

#print data2

#prints a summary of the data

#for describe() function

#prints various descriptive statistics
```

### 3 Within Groups, Part 2

Create a plain text data file using a text editor like Notepad, and save the file in the same directory as your R. Name the file “data3.csv.” Make sure that the file has the extension “csv,” Notepad will use the “txt” extension by default, and you must change it.

```
#import your data file into R

#print the data

#generate descriptive statistics
#summary

#length

#mean

#median

#standard deviation

#variance

#range

#visualize the data
```

### 4 So SPSS Exercise 2 from the textbook page 73. See pages 506-508 in text.

```
#create an integer vector pat.sat  
  
#create hosp.time vector  
  
#create data frame data4  
  
#print data  
  
#summaryze data  
  
#generate descriptive statistics  
  
#plot data
```