Home work/Assignment 1

1. If you want to know the mean value of a numerical variable, which function could you use?
2. str
3. summary
4. Neither of the functions can help
5. If you want to know the standard deviation of a numerical variable, which function could you use?
6. str
7. summary
8. Neither of the functions can help
9. Use the data mtcars by running the command data(mtcars) in your R console. Answer the following questions
10. How many observations are in the dataset?
11. What is the mean of the variable disp?
12. What is the maximum value of hp variable
13. Compute the lower and upper quantile of qsec variable
14. Use the data cars by running the command data(cars) from your console, plot a scatter of speed vs dist
15. Create a vector with some of your friend's names, name the vector friends
16. Using the dataset iris by running the command data(iris) from your console, tabulate the Sepal.Width for each Species from this dataset
17. Create a new variable/object 'b' with value 1947.0, what is the square root of b?
18. At this stage of your work space, how many objects are present in your R console (Hint. Use the command ls ())
19. Remove objects ‘b; and ‘cars’, how many objects are left in your workspace?
20. Use the dataset UCBAdmissions – (Student Admissions at UC Berkeley) by running the command data(UCBAdmissions) in your R console and answer the following questions
21. What are the variable names of the dataset? Can you name them?
22. What is the proportion of male students that were admitted?