## Assignment 01

This homework will help you to practice and self assess your knowledge and ability around the course concepts. Use the answer key to assess your work.

- 1. Assign a numeric vector with the values  $\{1, 4, 12, 7, 2\}$  to an object name scores.
- 2. Assign a character vector with the values  $\{CE, Outcomes, Beacon, Engage, Insight\}$  to an object name product.
- 3. Load the **tidyverse** package.
- 4. Make a 2 column, 4 row, data frame (data\_frame function) with a column for quarter and revenue. Use the values {1,2,3,4} for quarter and {16000,22000,26000,17000} for revenue. Assign the data table to an object named qrev.
- 5. Install and load the **car** package.
- 6. Use the ? to view the help file for the Florida data set. What is the cite source for this data set?
- 7. Use the View function to look at the Florida data set. How many people voted for Gore in Flagler County?
- 8. Load the **carnegie** package.
- 9. Use the carnegie data set and the **ggplot2** package (loaded in **tidyverse** above) to make a bar graph of BASIC2015 types.
- 10. Make a scatterplot to examine the relationship between ROOMS & BACCDEG. Make sure your plot avoids overplotting issues.
- 11. Make a histogram to examine the distribution of number of ROOMS. Set the aes (x position) and data globally in the ggplot function. After plotting with the default, adjust the binwidth to an interval of 250 wide.
- 12. Use **ggplot2** and the **qrev** data set you created above to make this Cleveland dotplot.

