Homework assignment 04

Use black text (if possible) for everything you include in this document. Keep both your answers and the original questions. Save this document in PDF format and submit it on Canvas. Include your last name, the course number and the module number in the name of your file.

1. Show a documentation header.

2. Download the acid rain data and import it into SPSS or another software package. Show the dialog box or program code that you used to import the data as well as the first five rows of data.

3. Calculate the number of pH values that are less than 7.0. While it is probably easier for a small dataset like this just to look at the data and count, please use your program to compute a variable that equals 1 if the pH level is less than 7.0 and 0 otherwise. Show the dialog box or code that you used to create this variable.

4. Draw a histogram for the pH values. Show the dialog box or code as well as the output.

5. Interpret this histogram.

6. Test the hypothesis that the average pH level is different from 7.0. This is a two-tailed test. Show the dialog box or code as well as the output.

7. Interpret the results of your hypothesis test.

8. Download the weight data and import it into SPSS or another software package. Show the dialog box or program code as well as the first five rows of data.

9. Draw a histogram for the weights. Show the dialog box or code as well as the output.

10. Interpret this histogram.

11. Test the hypothesis that the average weight is greater than 140 pounds. This is a one-tailed test. Show the dialog box or code as well as the output.

12. Interpret the results of your hypothesis test.