Learning Objectives:

**Inference for Means of Paired Differences:**
1. Identify a matched pairs design and when inference is appropriate in this situation.
2. Given a study, describe the sampling distribution of the sample mean of paired differences as specifically as possible.
3. Conduct a statistical inference (confidence interval or significance test) based on matched pairs data.

** Relevant Reading:**
- Chapter 9 pgs 337, 341-342, SD Module 4
- Chapter 11: CI Module 4
- Chapter 13: HT Module 4

**Suggested practice problems:**

11.36, 11.37, 11.38, 13.24, 13.25, 13.29, 13.31