Objective:

In this project, I would like you to select two competing stores (for example: Cub and Kroger, Wal-Mart and Kmart, or Lowe’s and Menards).
The goal of this project is to compare the prices (in general) of these two selected stores.

Procedure for collecting data:

From store 1 randomly select more than 30 items and list their prices. Go to store 2 and select the same items and list their prices.
Note: If an item is on sale, list the sale price.

Procedure for the tests:

I would like you to implement the methods that you have learned for comparing two means:
a. Independent samples.
b. Dependent samples.

For both parts, do the following:
1. Write $H_0$ and $H_I$.
2. Find the value of your test (the test statistic).
3. Find the critical value(s). Let $\alpha = .05$.
4. Make a decision.
5. Write a conclusion.

Remark:

For this experiment you were asked to use both independent and dependent samples. The conclusions may be the same or different; nevertheless, only one method is appropriate, not both.

After you perform both tests, explain which sampling is appropriate for this experiment. If you select one method, explain why; then in one paragraph write how the data could be collected for the other method if you wanted to use the other method.

Note: Like the other projects, at the beginning of this project explain what you want to do and how it is going to be done.