For the appropriate data (obtained or new), please apply hypothesis testing methodology on your own problem according to the following procedures.

Try to get some meaningful conclusion or explanation.

**1.** Parameter of interest: From the problem context, identify the parameter of interest.

**2.** Null hypothesis,: State the null hypothesis,.

**3.** Alternative hypothesis: Specify an appropriate alternative hypothesis,*.*

**4.** Test statistic: Determine an appropriate test statistic.

**5.** Rejectif: State the rejection criteria for the null hypothesis.

**6.** Computations.

**7.** Draw conclusions.

From previous assignments, we randomly selected 100 *RBrecs* and recorded correspo-

nding lengths of their red sides. We are told that the red sides of *RBrecs* should have an average length of 7cm. We decide to find out whether this statement holds.

Then it has test statistic:

Andhas adistribution withdegrees of freedom, use. Then we reject if

Since, we conclude that there is no strong evidence that the average of *RBrecs’* red side length is not 7 cm and we accept the statement.