*Module 2, Week 2, gretl problem set 4*

Use gretl and the dataset “Maternal and Infant Health Survey 2002” to answer the following questions.

1. Test the hypothesis that mean birthweight is different from 7 lbs.

2. Test the hypothesis that mean birthweight is less than 6.5 lbs.

3. Test the hypothesis that the proportion of female babies is different from 0.50.

4. Create a new variable named “smoke” that equals 0 if the mother did not smoke any cigarettes during pregnancy and equals 1 if the mother smoked at least one cigarette during pregnancy. Test the hypothesis that mean birthweight differs between smokers and non-smokers.

5. Test the hypothesis that the variables “gender” and “induced” are related (i.e. not independent).

6. Test the hypothesis that mean birthweight differs across mother’s race.