ECO 341, Fall 2017, Required Homework Assignment #4 Due at 11 AM on November 9

Construct a panel dataset with at least 100 observations and where N and T both equal at least 5.

- 1. Describe the basic economic question that you will answer with this dataset.
- 2. Report descriptive statistics.
- 3. Explain how you know that the variables in your specification are stationary.
- 4. Pick the best fixed effects specification and report results. Explain how you settled on your preferred types of fixed effects (*e.g.* time, cross-sectional, group).
- 5. Run hypothesis tests to determine if your specification from #3 is superior to pooled OLS.
- 6. Report results from a random effects specification.
- 7. Run a Hausman test to determine if random or fixed effects are preferable.