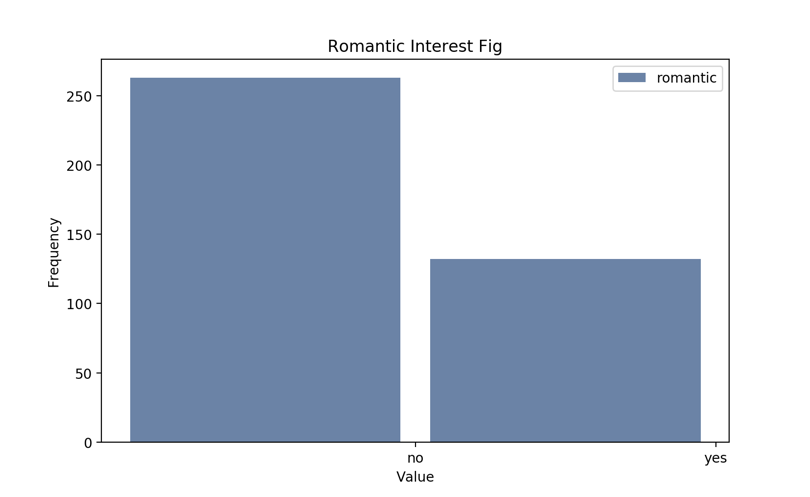
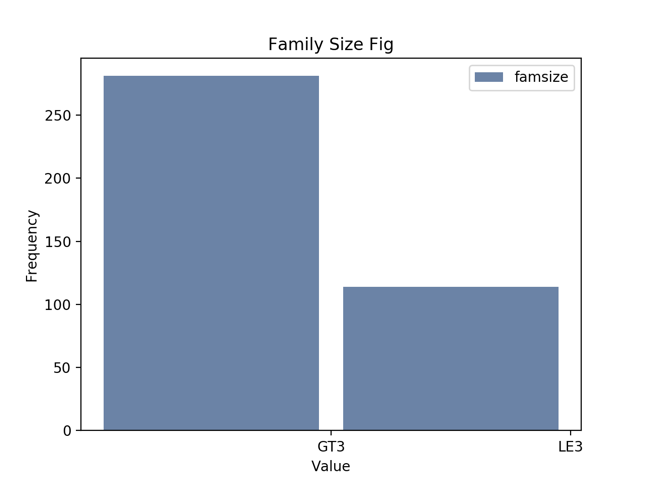
**Assignment1 Analysis Report**

* Xiaowei Wan

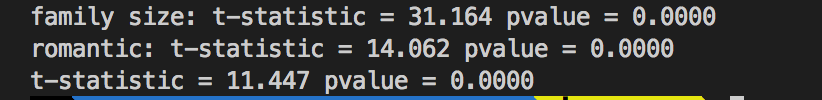
Plots:



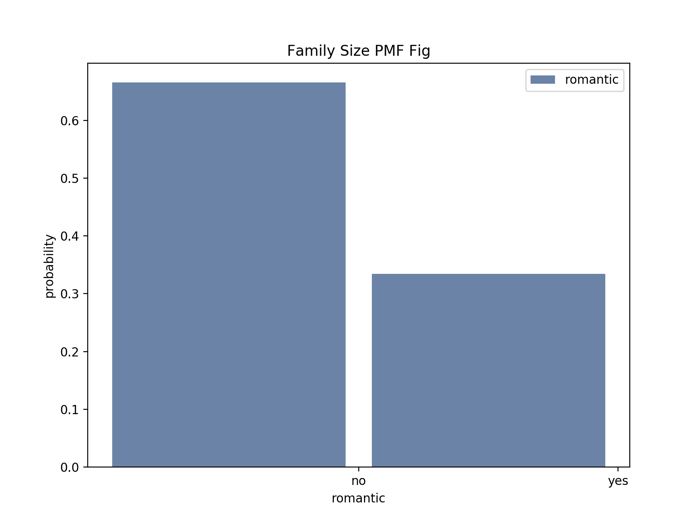
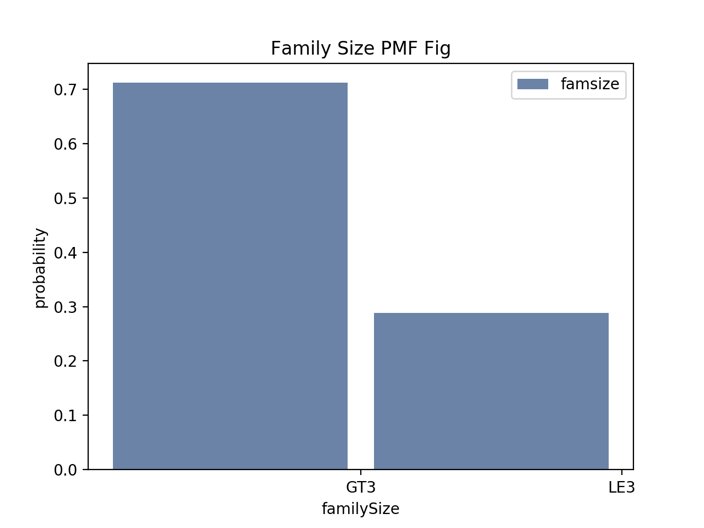
Histogram shows above.

Test this data set is good sample or not, I am using one sample t test to test it against the general population.

Using python scipy stats to calculate one simple t test statistics and p-value of family size and romantic data. Null hypothesis is m = 0. P-value is less than 0.05, the result is significant. The same for romantic. The third result is two sample test between family size and romantic. The result is significant as well since p-value = 0.



**# Assignment 2 – Probability Mass Functions**



PMF graph of family size shows that probability of family member less than 3 is around 30%. Student is in relationship probability is around 33%.

Python code:

