Section Week 8

The Background Survey data sample contains four variables iv_weekend_safety_fee, job, non_response, and gender. Gender is a variable equal to 1 for females and to 0 for males. Job is variable equal to 1 for students who have a job and to 0 for students who do not. IV_weekend_safety_fee is a variable equal to 1 for students in favor of increasing tuition fees by 50 dollars to implement new security measures and ensure Isla Vista (IV) is safer during weekends, and to 0 for students against that idea. Non_response is a variable equal to 1 for students who said they would not have answered the survey if answering had not been worth 3% of the final grade, while this variable is equal to 0 for students who said they would still have answered.

1. Run a regression predicting if a student will support the fee on a constant, job, and gender for students who would have answered the survey even if it was not worth 3% of the final grade.

```
smpl if non_response = 0
equation q1.ls iv_weekend_safety_fee c gender job
```

2. For the entire sample, use the regression results to create a variable equatl to the predicted response to the safety fee question.

```
smpl @all
q1.fit predict1
```

3. Create a variable equal to the squared prediction error according to this regression for the entire sample.

```
series resid1 = iv_weekend_safety_fee - predict1
series resid1_sq = resid1^2
```