Question 1

The following is a regression where the outcome is attitudes towards Hillary Clinton as measured by a standard feeling thermometer ratings (the variable ranges from 0 to 100 where 100 indicates high levels of support for Clinton). Researchers use two explanatory variables in their regression. First, they include a standard 7-point party identification measure that ranges from 1 (Strong Republican) to 7 (Strong Democrat). Second, they include a dummy variable (0 or 1) indicating whether the respondent lives in the South (the 13 states of the former Confederacy). The regression includes N=100 observations.

- Write a paragraph interpreting these results both substantively and statistically. For example, discuss both the statistical significance and size of the effect of each independent variable.
- The researchers claim that the regression indicates that partisanship *causes* changes in attitudes towards Clinton. That is, what assumptions would we need to make to interpret these results as causal? And do these assumptions seem reasonable in this situation? Give your answer in a paragraph.
- Calculate the F-statistic for this regression and interpret. You do not need to provide a precise p-value, but you do need to provide some indication that you understand what the F-statistic means (i.e., what it tells us about the model).

1. Statistically, a large purition of voters
lear democratic, unite not a large
numbers of the ge voters are from the south.

Substantively this nould make serve as

Outcome variable is thermometer rating of Clinton

The South learns

[1. Statistically, a large purition of under a large
substantive of the south south.

Outcome variable is thermometer rating of Clinton

(4.24)

Party ID

Farty ID

South

South

South

South

South

South

South

Party ID

South

R-squared: 0.24
Stand. errors are in parentheses.

2. The assumption is that these who are democratic cardadase there is point believe this is reasonable as there are many democrate who did not support clinton.

(7.06)

clinton.

The # statistics tells us that it is quite low that the probability these results happend Just by chance this would substantially he supported by southern voters fyxicalls voting against clinton.