

Moi

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- Office hours: Thursday, 12-2pm, SSH 116

Stata Basics

- **results window**: output from commands and code
- **command window**: enter commands
- **variables window**: manages variables
- **properties window**: shows properties of variables
- **review window**: your command history
- **log file**: will save the output of your work

```
1 log using testlog.log
2 set obs 100
3 gen x = rnormal(0,1)
4 log close
```

log using testlog.log, replace will rewrite a new log with same filename.

- **do-file**: a sequence of commands, accessed with doedit

Using Data

You can import data using the interface.

- .dta format is Stata format and easily opened with File → Open.
- .xls or .csv formats are imported via File → Import; default options are usually fine.

You can also import data using the command window.

- Move to the data directory: cd "C:\Users\username\Documents\", for example.
- .dta file: use "filename.dta", clear
- .csv file: import delimited "filename.csv", clear
- .xls file: import excel "filename.xls", clear

Analyzing Data

- Visit http://cameron.econ.ucdavis.edu/ECN102SPRING/AED_DATA.html and download AED_EARNINGS.DTA
- Load AED_EARNINGS.DTA into Stata.
- sum will show basic summary statistics of each variable.
- sum earnings, detail will show more details about the *earnings* variable.

- (e) `histogram earnings` will create a histogram of variable *earnings*.
- (f) `kdensity earnings` will create see a kernel density estimation of variable *earnings*.
- (g) `scatter earnings education || lfit earnings education` will create scatter plot and line of best fit of variables *earnings* and *education*.
- (h) `graph pie, over(education) plabel(_all name) title("Years of Education")` will create a pie chart for *education*, labeling each pie slice and the entire pie chart.

Save parts (b), (c), and (g) as a do-file, and then run the do-file to replicate your results. (Start your do-file with `clear` so there is no conflict with data that may already be in Stata.)

Homework Format

- It should be a single pdf file, uploaded to Canvas.
- Make the question number a distinct heading (i.e. big and bold).
- Give your answer first. Then list the command(s) used. Then give the Stata output.

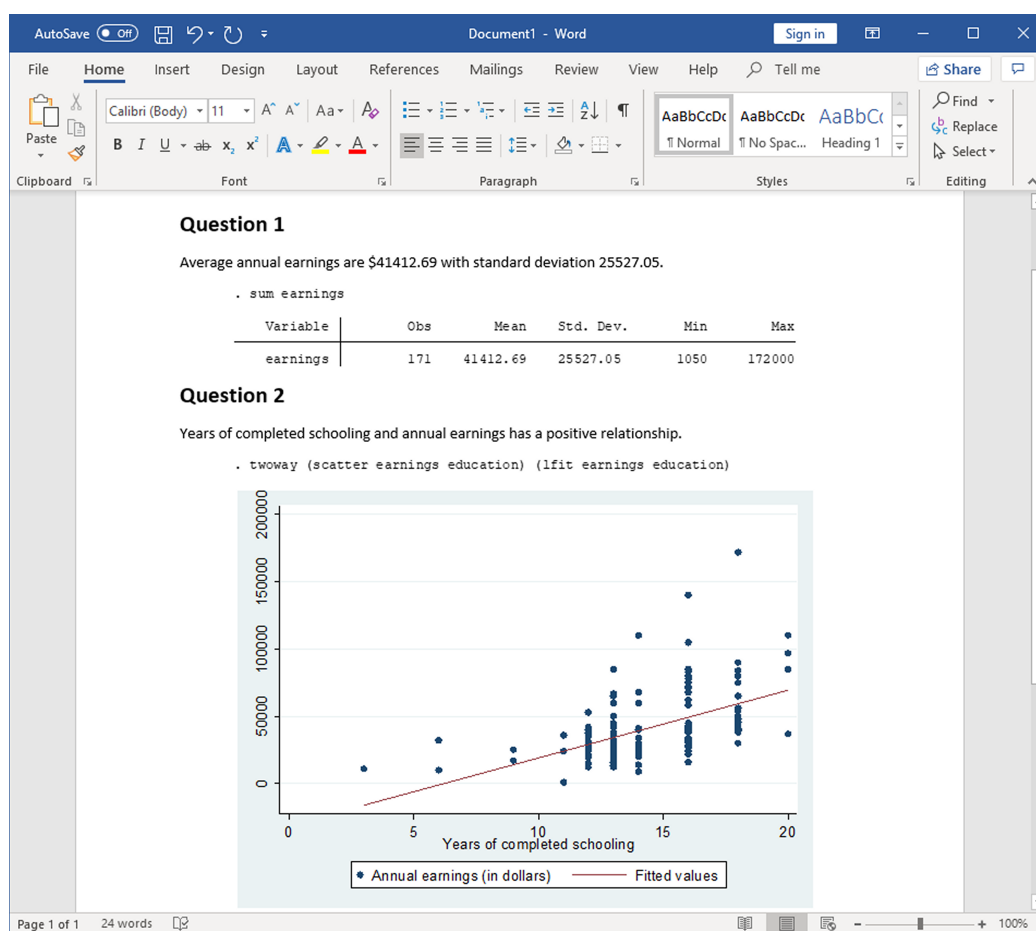


FIGURE 1: An example of how homework should look. Do me a favor and make it look pretty.