## 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.

- You can set your working directory via File → Change working directory.
- `.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.

- `cd "C:\Users\username\Documents\"` will change your working directory as shown.
- .dta file: `use "filename.dta", clear`
- .csv file: `import delimited "filename.csv", clear`
- .xls file: `import excel "filename.xls", clear`

## Analyzing Data

**(a)** Visit `http://cameron.econ.ucdavis.edu/ECN102SPRING/AED_DATA.html` and download `AED_EARNINGS.DTA`

**(b)** Load `AED_EARNINGS.DTA` into Stata.

**(c)** `sum` will show basic summary statistics of each variable.

**(d)** `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 a kernel density estimation of variable *earnings*.

**(g)** `scatter earnings education || lfit earnings education` will create a scatterplot 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 all` to avoid conflict with data that may already be in Stata.)

## Homework Format

Put your final answers (with Stata output) in one pdf, and your do-file in another pdf. Upload them both to Canvas. You should have no more than two pdfs for a given homework. Give the question number a distinct heading (i.e. big and bold).

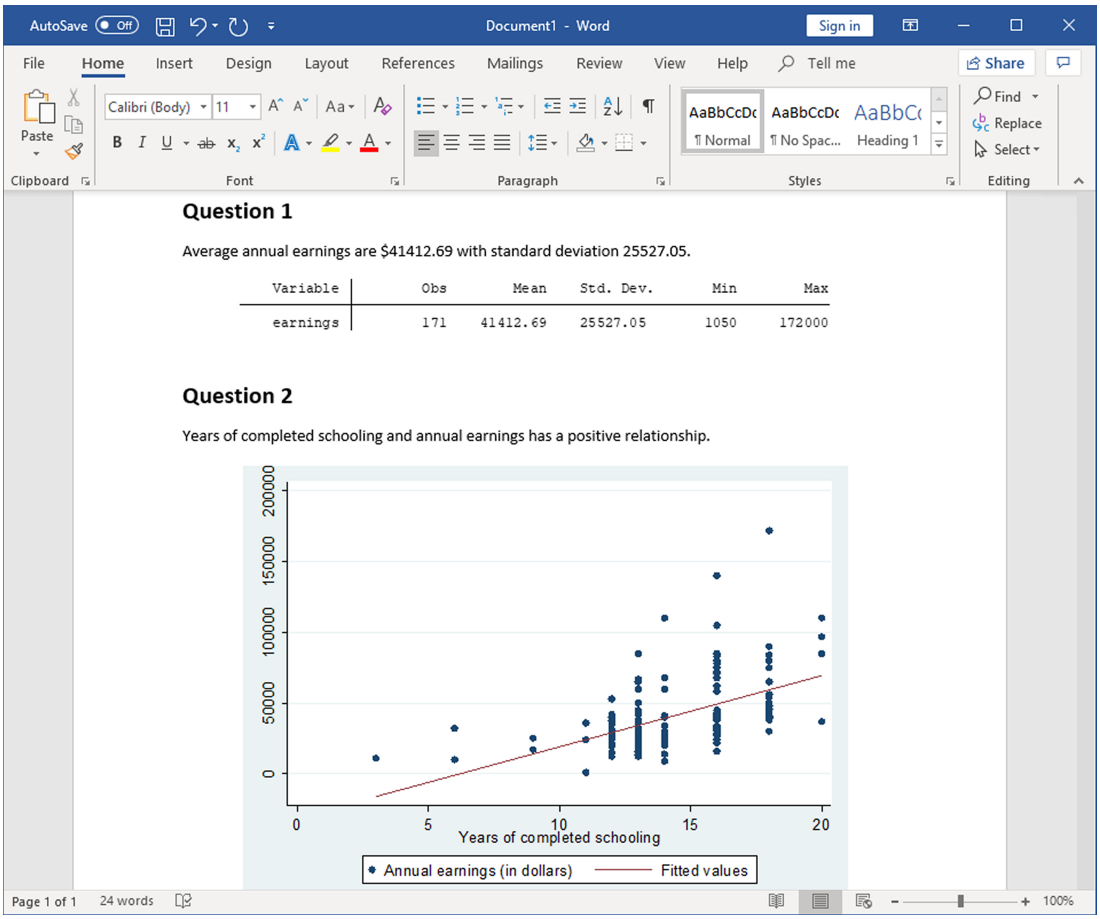


FIGURE 1: An example of how homework should look. Do me a favor and make it look pretty.