Assignment 1, Social Science Inquiry II (SOSC13200-W23-2)

Monday 1/8/24 at 5pm

For the first assignment, I want you to update this file with your name, and to set up a working directory for this class on your computer. Then, compile this .R file to generate a .pdf report. Submit *both* this .R file and the compiled .pdf file on Canvas.

To get started in R:

- download the latest version of R here: https://www.r-project.org/
- download the free Rstudio desktop here: https://www.rstudio.com/

To generate pdf reports, you need to have a version of LaTeX installed; LaTeX is a typesetting software, and we won't use it directly in this class, but R will call it under the hood to generate reports. If you don't already use LaTeX, you can install TinyTeX, which is a lightweight, flexible LaTeX installation.

To install TinyTex, you can run the code below in R, but remove the hashtag from in front.

```r
# install.packages('tinytex', repos = "http://cran.us.r-project.org")
# tinytex::install_tinytex()  # install TinyTeX
```

In this class, we will generate pdf reports based on R scripts with a method called "spinning" in R. When spinning, we differentiate between regular R comments,

```r
# --which are formatted like this, with just the hashtag before them--
```

and roxygen comments, which have #' before them. Roxygen comments can use more advanced formatting, like making things **bold** or *italicized*, but that's not necessary to do for class.

What *is* very useful is that you can make a heading for your report, like at the top of this script.

1. Fill in your own name at the top of the .R file for this report, where it says `<your name here>`.

2. Set up a working directory for this class.

    a. Make a folder for this class somewhere on your own computer. Preferably not on your desktop. Mine is here: `~Users/mollyofferwestort/Documents/Git/SOSC13200-W24`.

    b. Inside that folder, make one folder called `assignments`, and one folder called `data`.

    c. Save *this* file inside your `assignments` folder. Starting with your class folder, your directory structure should look like this:

```
| -class-folder
| |- assignments
| | |-assignment1.R
| |- data
```

You should save every homework assignment inside your `assignments` folder.

    d. Print your working directory:

```r
getwd()
```

```
## [1] "/Users/moffer/Documents/Git/SOSC13200-W24/assignments"
```

```
dir('..') # and the directory above it.
```

```
## [1] "assets"      "assignments" "data"        "in-class"    "LICENSE"
## [6] "README.md"   "slides"
```

3. Compile this report.

To do this, click on the notebook at the top of the source pane, where you edit this script. Choose "PDF" for report output format. (If you have any problems, search "Compile report" in the help menu.)