Homework 1

Questions 1 and 2 below require no submission. Question 3 should be typed up **in your new editor of choice** and submitted via Canvas as **a plain text file** (file extension .txt). No Microsoft Word!

1. Install a text editor of your choice and look up the hot keys for all of the following commands:

   - save, save all open files
   - open file
   - undo/redo
   - go to particular line of code
   - highlight a word/the next word/the line
   - highlight all instances of a word
   - copy/cut/paste words/lines
   - duplicate lines

2. Install the following software on your computer:

If you are on a Mac

The following will walk you through the process of installing XCode tools and the Homebrew package management system on your computer and setting the default shell to `bash`.

   - Find the Terminal program on your computer. When it launches, copy/paste (using hotkeys?!) the following command and press `Return`.

```
xcode-select -install
```

   - Copy/paste the following command and press `Return`.

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

   - Once the installation completes, copy/paste the following two commands, one at a time.

```
brew upgrade
brew install bash
```

   - Once the installation completes, copy/paste the following command. You may be prompted to enter a password. This command will fail if you do not have administrative rights to your computer. Contact David if this is the case.

```
echo $(brew --prefix)/bin/bash | sudo tee -a /private/etc/shells
```

   - Finally, execute the following command, where you replace `your-username` with your actual user name. You may (again) be prompted for a password.

```
sudo chpass -s /usr/local/bin/bash $(whoami)
```

If you are on a Windows machine

- Follow the video Sohail made to install Windows Subsystem for Linux.

3. Write a paragraph or two description of your workflow for the class project. Your description should include:

- a summary of what data will be used;
- what analyses will be performed on the data;
- what the output of the analysis will contain;
- software (including packages) that you need to complete your workflow.