Let's verify your QLSC 612 software setup

1. Bash shell

Open a **terminal** and type `echo $SHELL`

```
# Expected output
/bin/bash
```

Not working? Tips:

- Mac/Linux: You may have to type `bash` first to access the bash shell.
- Windows: Ensure you are in the WSL2 Ubuntu terminal.

2. Git

Type `git --version`

```
# Expected output
git version 2.xx.x
```

3. Python

3.1. Activate the `qlsc612` conda environment you created during the course setup by typing `conda activate qlsc612`.

```
# Your shell should now display:
(qlsc612) USERNAME@YOURMACHINE:
```

3.2. Now type `which python`

```
# Expected output
home/USERNAME/miniconda3/envs/qlsc612/bin/python
```

If you are using Anaconda, the path should end in something like `anaconda3/envs/qlsc612/bin/python` instead.

Installing another Python package

Let's install another Python package you will use in the course, called `statsmodels`, into the `qlsc612` environment. Type:

`conda install -c conda-forge statsmodels -y`

Tip: To deactivate the conda environment after you are finished with it, type `conda deactivate`

4. Docker

4.1. If you are on a Mac or Windows machine, first start the Docker Desktop application.

4.2. In the terminal, type `docker run hello-world`. After a few seconds, you should see a message that starts with the following:

```
Hello from Docker!
This message shows that your installation appears to be working correctly.
```

...

Getting the course materials

Let's get a copy of the materials we will need for the lectures from GitHub onto our own computer, using the `git clone` command (don't worry, you'll learn more about `git` commands in the Git and GitHub module!)

For convenience, let's store the course materials in our home directory (represented by `~`). In the terminal, type:

```
cd
git clone https://github.com/neurodatascience/QLS-course-materials.git
```

This will take a few seconds to complete. Once finished, type `ls`. You should see among the output `QLS-course-materials`. This is the folder containing all the course materials.

Note: If you have already cloned the repo elsewhere, we recommend deleting that copy and running the above commands to get the latest version of the materials in your home directory.

From now on, when you want to ensure you have the latest version of the materials from GitHub, type:

```
cd
cd QLS-course-materials
git pull
```

A note for Windows users

You will not be able to easily find this new folder `QLS-course-materials` in your normal file explorer, because the WSL2 file system is separate from your normal Windows file system (which is under `/mnt`).

However, if you *really wish* to view the directory in your file explorer, type `explorer.exe .` while you are in your home directory in the WSL2 Ubuntu terminal (type `cd` first if you are not sure). This will open a file explorer window showing your WSL2 home directory files and folders, including `QLS-course-materials`. We strongly recommend against trying to directly modify any files in this WSL2 file system from outside the terminal, unless you know what you are doing. However, if you wanted to, you could **copy the course materials directory** (`QLS-course-materials`) into a Windows location you are familiar with (e.g., a folder in your D drive), to be able to access the contents as you would your usual files for review outside of class, etc.

For the purposes of the lectures and exercises, we will only be working with the `QLS-course-materials` through the WSL2 Ubuntu.