Problem Set 1 Solutions

Part A

Problem 1

Clone the **rclass2_spring2020** repository to your local machine: https://github.com/Rucla-ed/rclass2_spring2020

Write the git command you used here:

```
git clone git@github.com:Rucla-ed/rclass2_spring2020.git
```

Problem 2

Change directory into **rclass2_spring2020**. Write the command you used here:

```
cd rclass2_spring2020
```

What is the command to list all the directory contents in **rclass2_spring2020**, including hidden files and directories (ie. entries starting with `.`)?

```
ls -a
```

Copy the output here:

```
.
..
.git
README.md
```

Problem 3

Since **rclass2_spring2020** is a git repository, you can run git commands in this directory. What is the command to check the current state of the repository?

```
git status
```

Copy the output here:

```
On branch master
Your branch is up-to-date with 'origin/master'.

nothing to commit, working tree clean
```

Problem 4

Recall from lecture that when you cloned this repository, your local repository is automatically connected with the remote: https://github.com/Rucla-ed/rclass2_spring2020

You can verify this connection by running `git remote -v`. Copy the output of this command here:

```
origin  git@github.com:Rucla-ed/rclass2_spring2020.git (fetch)
origin  git@github.com:Rucla-ed/rclass2_spring2020.git (push)
```

Problem 5

Navigate to the issues tab for the **rclass2_spring2020** repository here: https://github.com/Rucla-ed/rclass2_spring2020/issues

Create a new issue titled "Problem Set 1 - YOUR NAME" and post a question of your choice. Add the "question" label to your issue and assign it to 3 students in the class who you do not know.

Once your issue received 3 responses, close the issue. If other students assigned you to their issue, make sure to post your response as well. You should get an email notification if you were assigned to an issue.

Part B

Problem 6

Recall your personal **student_lastname** repository that you've cloned during class. Navigate to this directory in your command line.

Print out the current working directory. What is the command you used?

```
pwd
```

Copy the output here:

```
/Users/cyouh95/Projects/RStudio/student_han
```

Problem 7

Create a new folder called **scripts** inside **student_lastname** via the command line. Write the command you used here:

```
mkdir scripts
```

Change directory into the **scripts** folder and write the command you used here:

```
cd scripts
```

Problem 8

Inside the **scripts** folder, create a file called `problemset1.R` via the command line. Write the command you used here:

```
touch problemset1.R
```

Open `problemset1.R` in RStudio to edit the file and perform the following tasks:

- Load the `tidyverse` library
- Preview the first 5 rows of the `mpg` dataframe
- Filter the `mpg` dataframe to include only Ford Mustang's that were built after the year 2000

Problem 9

In your terminal, navigate back to your **student_lastname** directory (ie. the parent directory of **scripts**). Write the command you used here:

```
cd ..
```

Check the status of the repository and copy the output here:

```
On branch master
Your branch is up-to-date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)

    scripts/problemset1.R

nothing added to commit but untracked files present (use "git add" to track)
```

Problem 10

Add the new file you've created (`problemset1.R`) to the staging area. Write the git command you used here:

`git add problemset1.R`

Commit your changes with a message of your choice and write the git command you used here:

`git commit -m "add problemset1.R"`

Push your changes to the remote repository and write the git command you used here:

`git push`

Finally, add this file (`problemset1.Rmd`) to the **scripts** folder and push to the remote repository as well.