This assignment asks you about the distributed architecture git and the commercial software company Github. Git is arguably the most popular version control system used in the world. You can learn a little bit about it in the two lessons of chapter 1 entitled “Version control and introduction to git” and “Creating a Github repository”. In this assignment, you will go through a series of steps related to creating a github repo and cloning a github repo. But before we begin, you will need to set up git on your local machine by following the instructions here:

<https://docs.github.com/en/get-started/quickstart/set-up-git>

1. Create a free account at Github.com. I recommend if you do not already have a github account to consider this your permanent private account going forward, so choose a username you want to keep.
2. Download Github Desktop and install it on your local machine.

**Create a new repo**

1. Use the pull down menu under “File” (top left corner once you open Github Desktop) and click “Create a New Repository”. Name your repo “First repo” and set the Local path to some place on your local machine that *does not sync with cloud services* (i.e., do not put it in Dropbox or in a section that syncs to iCloud, etc.). Initialize with a README file and publish your repository.
2. Find this repo on your local machine using Finder or your operating system’s equivalent.
3. Open the readme file and edit it with a description of what this folder will contain
4. Copy and paste this Word document into the repo.
5. Create a new section in the document you used to answer questions 1-4. Briefly explain what git and github are used for, how they are similar and how they are different.
6. Name a benefit of using git to organize your empirical research. What types of common problems can occur if you don’t use git?
7. What about using git is challenging for you for right now? What steps can you take to minimize those challenges such that you can adopt git for this class?
8. Name the four main Git operations. What does each operation do and how are is each operation different from one another?
9. The first step in your new empirical workflow is the creation of a Github repository (“repo”). You can either do this independently or do this through R functionality. You need to create a github account, then create your first repository called “Titanic”. Initialize with a Readme and create the separate folders that we discussed in class on Monday.
10. Post a link to your repository
11. Please clone our course github repository on your desktop

<https://github.com/scunning1975/causal-inference-class>