1. Download you assignment from the following GitHub repository
2. Go to the website for Git documentation: <https://git-scm.com/> , if you are using a Windows machine you will see the instructions for Git here:
   1. Windows - <https://git-scm.com/download/win>
   2. Mac download - <https://git-scm.com/download/mac>
3. Download and install Github desktop on your laptop: <https://desktop.github.com/>
4. Create a repository called MyRepo and publish it
5. Create a branch called TestBranch
6. Save the answers to the document and push the test branch to your repository
7. Add a README file to let the instructors know what you did

Use the following videos to answer the following questions:

<https://www.youtube.com/watch?v=vR-y_2zWrIE&list=PLWKjhJtqVAbkFiqHnNaxpOPhh9tSWMXIF&index=1>

1. What is Git and what does it do?

Git is a version control software, which allows you to see all the changes that have been made to your code since its creation, allowing you to revert back to an early version of the code if you realize you made a mistake somewhere. It is open source, meaning it can be downloaded from the internet for free.

1. How is Github different from Git?

Github is different from Git in that it is a collaboration website that interacts with git, and contains git repositories that contain the projects you’ve created in your version control.

1. What is a branch? Why is it useful?

A branch is a grouping of code that exists in a github repository. The initial branch created contains all the initial code that was in production and is called master, and in order to make changes you create another branch which is an exact replica of master. This allows you to make changes without affecting anything that’s in production, thereby making it very useful.

1. What is a commit?

A commit stores a set of changes that is made to a branch, and basically takes a snapshot of your repository at a given point in time. A commit can consist of one change or several.

1. What is a pull request?

A pull request is a request made on github that allows you to compare a branch you made with another branch, such as master, and allows you and others to see the changes you made and collaborate on them.

1. What is a fork? How would you find this to be useful?

Creating a fork creates a copy of a repository on github, but under your own account so you have write access. This is useful if you don’t have collaborator access to a project, but want to make changes to master.

1. How do you clone a repository

You can easily clone a repository using github.com, IDE, github desktop, or using the terminal. You can still communicate with the remote repository from your local computer, but need to sync changes manually. When the changes are synched to the remote repository on github, other users can see your changes.

1. How do you resolve merge conflicts?

Merge conflicts can be resolved by running git status, which allows you to see which files have the merge conflicts within them. You can then locate the merge conflict markers within the file, and pick the version of code you’d like to keep, and remove the conflict markers. You can also delete both versions an create a brand new line. Save the changes, and commit them, and git while acknowledge that the merge conflict has been resolved.