

MAD 4360/6360

Assignment 1 - Git and GitHub

DEADLINE: 08/04/2024 @11:59 pm

DELIVERABLE: A .pdf file containing the answers and screenshots for the questions and tasks below, submitted on icollege by the deadline.

Objectives:

- Familiarize yourself with version control systems, Git commands, and GitHub

This assignment will take sometime to complete, so please plan accordingly.

1. Complete the following version control and Git training in LinkedIn Learning and obtain a certificate with your name on it (2h 55min):

<https://www.linkedin.com/learning/git-essential-training-the-basics>

LinkedIn Learning is free to all GSU students and employees.

Make sure you follow the training along, by installing git on your computer and then performing the commands on your computer.

Obtain the certificate for completing the training and include it in the submission document as a screenshot. (40 points).

2. Access “Learn Git Branching” <https://learngitbranching.js.org/> and complete at least the following levels:

a) Main – Introduction Sequence (10 points)

b) Remotes – Push & Pull -- Git Remotes! (10 points)

Take screenshots of your browser with the two completed trainings and include the time on your computer in your screenshots. Then copy-paste the screenshots in your assignment file.

3. Access “Visualizing Git” <http://git-school.github.io/visualizing-git/>, and execute the following commands in order to see how the repository changes:

a) git log

b) git commit

c) git commit

- d) git commit -m="third"
- e) git branch dev
- f) git commit -m="commit master"
- g) git checkout dev
- h) git commit
- i) git commit
- j) git commit
- k) git log
- l) git branch newFeature
- m) git merge master
- n) git commit
- o) git checkout master
- p) git commit
- q) git log

Take a screenshot of your screen after completing the training, showing the entire page, with the commands you executed and the visualizations, and include the time on your computer in your screenshots. Then copy-paste the screenshots in your assignment file.(10 points)

4. Answer the following questions:

- a) What is a .gitignore file? (3 points)
 - b) What is the Git command you can use to compare two commits? (3 points)
 - c) What is the HEAD pointer in Git and how does it move around? (3 points)
 - d) What Git command can you use to undo changes to a file in your working directory? (3 points)
 - e) What Git command can you use to revert a commit? (3 points)
5. Create a GitHub account at <https://github.com> (if you don't have one already) and copy paste your GitHub username in your assignment as an answer to this question. (3 points)

Additional resources: You can look up more tutorials at <http://try.github.io>