

GIT Assignment 1

1. What is a git stash list?

A. The Git stash list command pulls up a list of one's repository's stashes. Git will display all of our stashes and a corresponding index

2. How do you get a list of all the files that have been updated in a given commit?

A. To find out which files changed in a given commit, use the **git log --raw** command.

3. What is a Git merge conflict?

A. A merge conflict is **an event that occurs when Git is unable to automatically resolve differences in code between two commits**. When all the changes in the code occur on different lines or in different files, Git will successfully merge commits without your help.

4. How do you distinguish between git fetch and git pull? How do you differentiate between Git Merge and Git Rebase?

A.

Fetch: update **local** with **remote changes** but **not merge** with any **local branch**.

Pull: update **local** and **merge** the changes with the **current branch**.

Merge: It combines sequences of commits into one unified history of commits

Rebase: A process to reapply commits on top of another base trip

5. What command uploads any GitHub repository to your computer using the git command?

A. Do this with git add filename. If you want to add all your files, you can do git add.

6. How do you write a commit message using the command? How do you push code in GitHub?

A. Type git commit -m "adding files". -m lets you add the commit message in line.

Git push origin main

7. How do you make a Git repository?

A.

- Create a directory to contain the project.
- Go into the new directory.
- Type `git init`.
- Write some code.
- Type `git add` to add the files
- Type `git commit`.

8. What is Git, and how does it work?

- A. **Git** is a free and open-source distributed version control system designed to handle everything from small to very large projects with speed and efficiency. Git internally stores a branch in the heads folder (**inside . git\refs folder**), initially as the hash of the latest commit. After each commit, Git updates the branch reference with the hash of the new commit.