**Git Assignment 1 Answers**

**submitted by,**

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1. What is a git stash list?

A). A git stash list is a command which used to show list of stashes that

have been created in a repository.

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

Commit?

A). we can use **git diff** command to list out all changes to the repository

after a commit had been made.

3. What is a Git merge conflict?

A). A git merge conflict happens when there are conflicting changes to

or commits that git is trying to merge together. This happens when git

is unable to determine how to combine changes due to conflicting

Modifications on the file.

4. How do you distinguish between git fetch and git pull? How do you

differentiate between Git Merge and Git Rebase?

A).Git fetch is used to download the latest changes from a remote

repository to your local repository.

Git pull is a combination of git fetch and git merge. It downloads the

changes and merge the new changes to the current working branch .

Git Merge preserves the commit history which includes commits of

source in target branch while merging to target branch.

While Git Merge does not preserve the commit history and we will see

as if the commits were coming from the target branch itself.

5. What command uploads any GitHub repository to your computer

using the git command?

A). **Git clone** command does this.

6. How do you write a commit message using the command? How do

you push code in GitHub?

A). **git commit - m “commit message”**  - command for writing commit

message.

To push the code to github:

1). Initialize local repository using `git init`

2). Adding changes to staging `git add .`

3). Committing these changes `git commit -m “commit message”`

4). Link local repository to github repository `git remote add origin

<github repo url>`

5). Push the local commits to github `git push -u origin

<branch\_name> `

7.How do you make a Git repository?

A). 1). Go to the folder or create a folder

2). Initialize the git - `git init`

3). Start adding files to this

4). Commit changes

Finally link it with github then you will have a github repository.

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

A). Git is an example of a distributed version control system. It had been

designed to control versioning of codes.

It mainly works on the basis of three states.

1). Working directory - It is the place where code is going for changes.

2). Staging Area - It is the place where the code resides after changes

but not pushed to the main area.

3) Commit - It is the place where code is pushed and has the versions

associated with it.