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GIT :

- ➔ Git is an **open-source distributed version control system**. It is designed to handle minor to major projects with **high speed** and **efficiency**.
- ➔ It is **developed to coordinate the work** among the developers.
- ➔ **Features of Git :** Open source,Speed,Scalability and Security.

BENEFITS OF GIT :

- ➔ Each command takes only a few seconds to execute so we can **save a lot of time.**
- ➔ One of the most important benefits of Git is that it supports **offline working**. If we are facing internet connectivity issues, it will not affect our work.
- ➔ One additional benefit of Git is we can **Undo mistakes**.
- ➔ Git allows us to track changes.

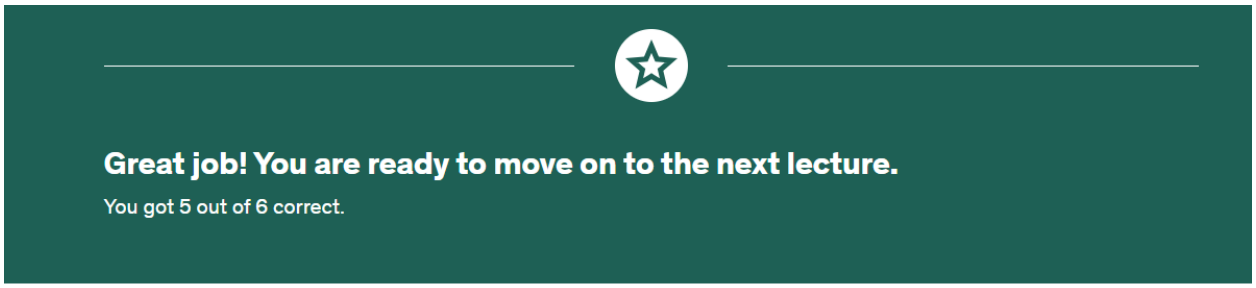
3 STAGES OF GIT :

- ➔ Working Directory - It is the current working directory after adding in the staging area.
- ➔ Staging Area > It is a preview of commit.
- ➔ Repository > After commit it will be added to the repository.

COMMENDS :

- ➔ **$ ls** - Used to list.
- ➔ **$ mkdir <name>** - Used to create a new directory.
- ➔ **$ cd <name>** - Used to change directory.
- ➔ **$ git init** - Initialize a git repository.
- ➔ **$ git status** - To check status.
- ➔ **$ git add <file-name>** - Add file to staging area.
- ➔ **$ git commit -m "Commit message here"** - Commit file to git repository.
- ➔ **$ git log** - To check history.

Quiz 1 Completion Certificate :

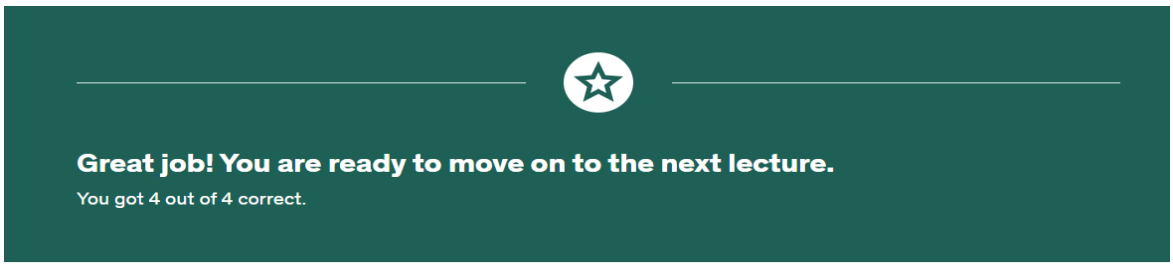


What you know

- Which command do we use to initialize an empty git repository?
- Which command do we use to add a file to the staging area?
- Which command do we use to commit a file to our git repository (.git directory)?
- Which command do we use to check the status of our working directory and staging area?
- Which command do we use to check the history of our commits (snapshots)?

- ➔ **$ git add *.html** - To add .html all files or the same type file.
- ➔ **$ touch hello.css** - To create or add new files.
- ➔ **$ ls -a** - List all files.
- ➔ **$ git add -A** - Add all files & folders.
- ➔ **$ git reset HEAD <file name>** - To remove from staging area.

Quiz 2 Completion Certificate :

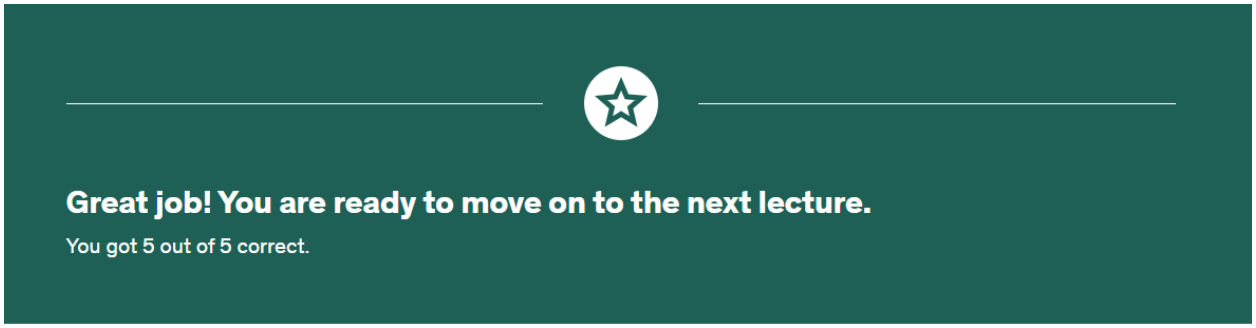


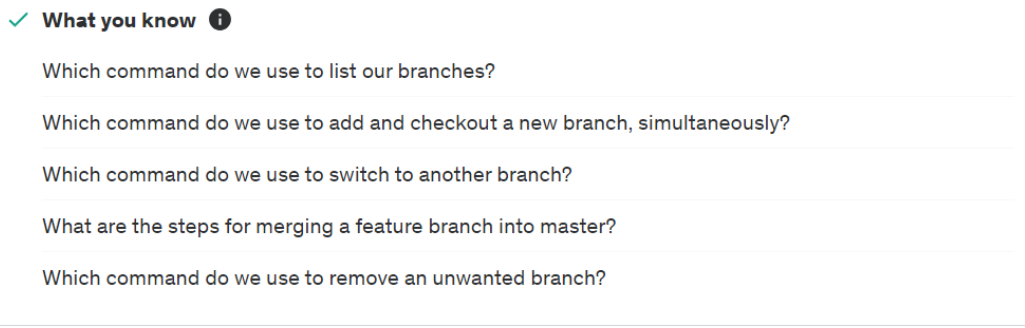
What you know

- Which command do we use to add all files and folders (including hidden ones) to the staging area?
- Which command do we use to add all files of the same type?(e.g., all .html files)
- Which command do we use to remove helloWorld.js from the staging area?
- What is the name of the file that we create in order to list all of the files and folders we want git to ign...

- ➔ **$ touch .gitignore -** Remove from staging area.
- ➔ **$ mv <file name 1> <filename>** -to rename or change files.
- ➔ **$ mv <filename> <foldername>** - To move file to folder.
- ➔ **$ git rm –cached <File name>** → To remove file in folder.
- ➔ **$ cd <folder name> && <filename>** - To create file in folder.
- ➔ **$ echo "folder name" >> .gitignore** - Add the folder to .gitignore.
- ➔ **$ git branch** - To list all branches.
- ➔ **$ git checkout -b <branch_name>** - To add a new branch.
- ➔ **$ git checkout <branch-name>** - To change branch.
- ➔ **$ git merge <branch-name>** - To merge branches from old to new.
- ➔ **$ git branch -d <branch-name>** - To delete or remove branch

Quiz 3 Completion Certificate :





- ➔ Login to github
  - ◆ Use SSH Key from C9 to github add SSH
- ➔ Push an existing repository from the command line
  - ◆ $ git remote add origin git@github.com:nax3t/intro-to-git.git
  - ◆ $ git push -u origin master
- ➔ In c9 use these command
  - ◆ $ git remote add origin <url>(git@github.com:nax3t/intro-to-git.git)

➔ **$ git remote add origin <url>** - To add into github.
➔ **$ git remote -v** - To check origin that it is added in github.
➔ **$ git push -u origin <branch>** - To push into github.

Course 1 Completion :