### **GIT STASH:**

- Git stashing is used to store data temporarily in Git without committing the code to the repository.
- Git stashing takes the incomplete state of our code, and save it temporarily for future purpose.
- It is used to temporarily remove uncommitted changes.
- Git stash is a built-in command with the distributed Version control tool in Git that locally stores all the most recent changes in a workspace and resets the state of the workspace to the prior commit state.

## **COMMANDS USED FOR GIT STASH:**

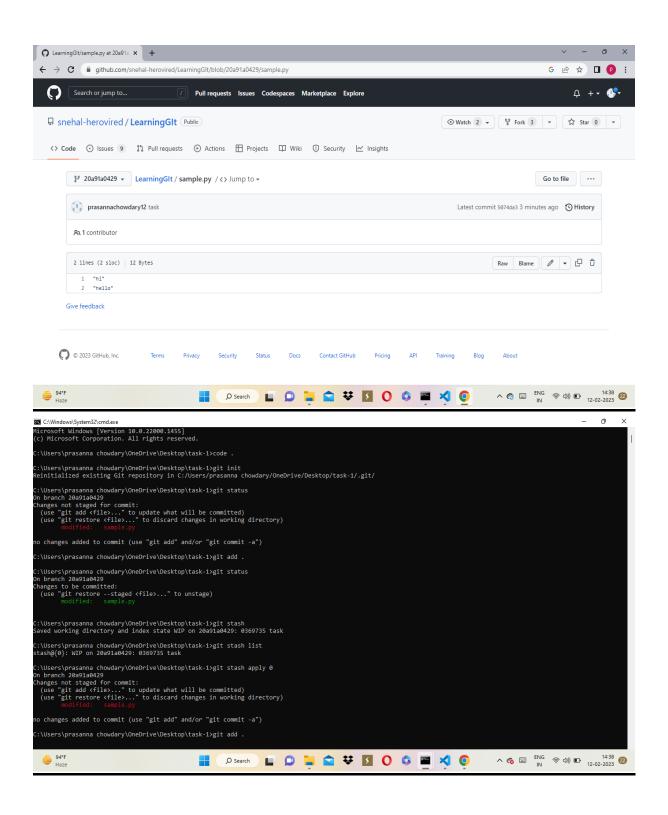
**GIT STASH LIST**: It display the stash history in chronological order.

**GIT STASH APPLY:** It Takes the files in a stash and places them back into the development workspace, but does not delete the stash from history.

- You can re-apply the changes that you just stashed by using the git stash command.
- In case of more than one stash, you can use "git stash apply" command followed by stash index id to apply the particular commit.
- If we don't specify a stash, Git takes the most recent stash and tries to apply it.

**GIT STASH POP:** It Takes the files in a stash, places them back into the development workspace and deletes the stash from history.

**GIT STASH PUSH**: It Creates a new stash and rolls back the state of all modified files.



### **GIT MERGE:**

- It is used to integrate changes from another branch.
- It takes the contents of a source branch and integrates them with a target branch.

## **Different types of merges:**

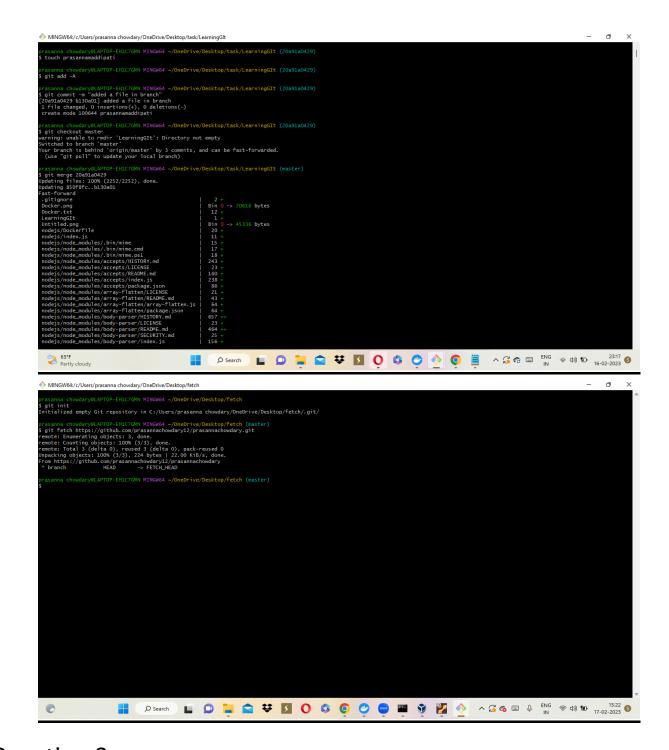
- **1.Fast Forward:** When we create a branch, make some commits in that branch, the time we're ready to merge, there is no new merge on the master.
- **2.Recursive:** when it's time to merge, git recurses over the branch and creates a new merge commit.
- **3.Resolve:** It tries to carefully detect criss-cross merge ambiguities and is considered generally safe and fast.

### **GIT FETCH:**

- git fetch is primary command used to download the contents from remote repository.
- git fetch is used when you only want to see all of the current branches and changes in your remote repository.
- git fetch commands is used to pull the updates from remotetracking branches. Additionally we can get the updates that have been pushed to our local machines.

### **FETCH COMMANDS:**

- 1) git fetch <repository url>: By using this command we can fetch the complete repository with the help of fetch command from repository URL.
- 2)git fetch <br/>
  branch URL> <br/>
  branch name>: This command is used to fetch data from specific branch.
- 3)git fetch --all: This command is used to fetch the data from all the branches simultaneously.
  - The git fetch can fetch from either a single named repository or URL or from several repositories at once.
  - The git fetch downloads the remote content but not update your local repository working state when no remote server is specified, by default, it will fetch the origin remote.



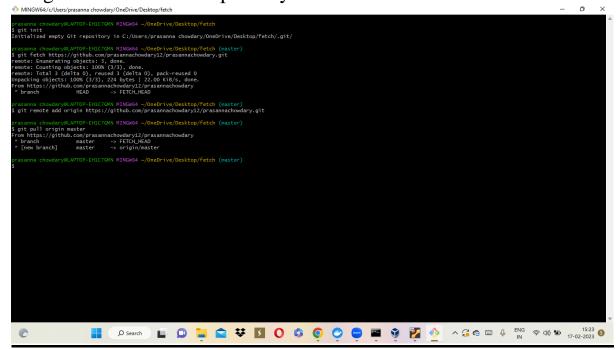
# **DIFFERENCE BETWEEN GIT FETCH AND GIT PILL:**

## **GIT FETCH:**

- It is the command that tells the local repository that there are changes available in the remote repository without bringing the changes into the local repository.
- It gathers any commits from the target branch that do not exist in the current branch and stores them in our local repository.
- It is a safer alternative because it pulls in all the commits from your remote but doesn't make any changes to your local files.
- It is a command to see all of the remote's changes without applying them.

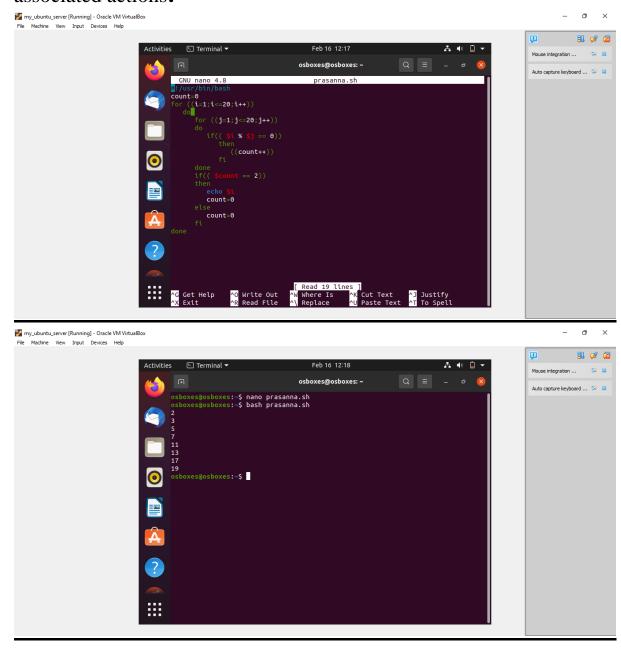
## **GIT PULL:**

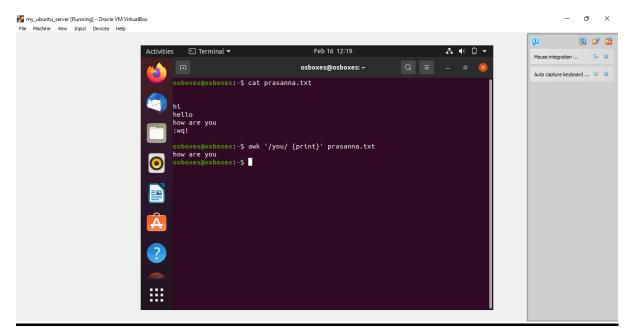
- It is used to fetch and Merge any commits from the tracking remote branch.
- It is used to fetch and download content from a remote repository and immediately update the local repository to match that content.
- It is more advanced action and it's important to understand that you will be introducing changes and immediately applying them to your currently checked out branch.
- Git pull is a command that allows you to fetch from and integrate with another repository or local branch.



# **LINUX AWK:**

- Awk is mostly used for pattern scanning and processing.
- It searches one or more files to see if they contain lines that matches with the specified patterns and then perform the associated actions.





### **GIT HISTORY:**

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```

# **Question 5**

## **Ubuntu:**

