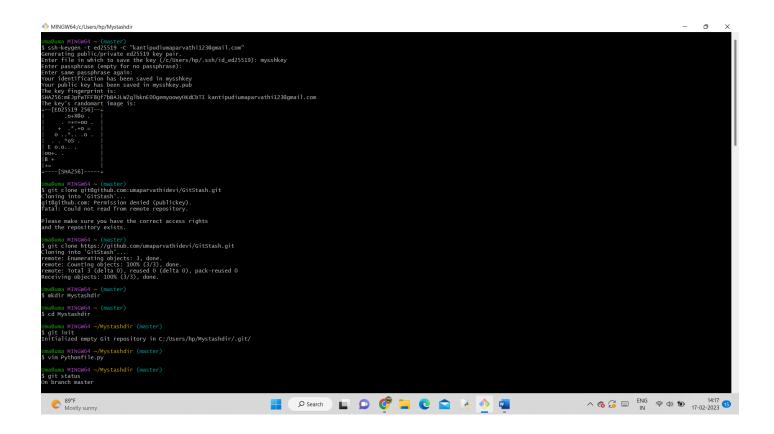
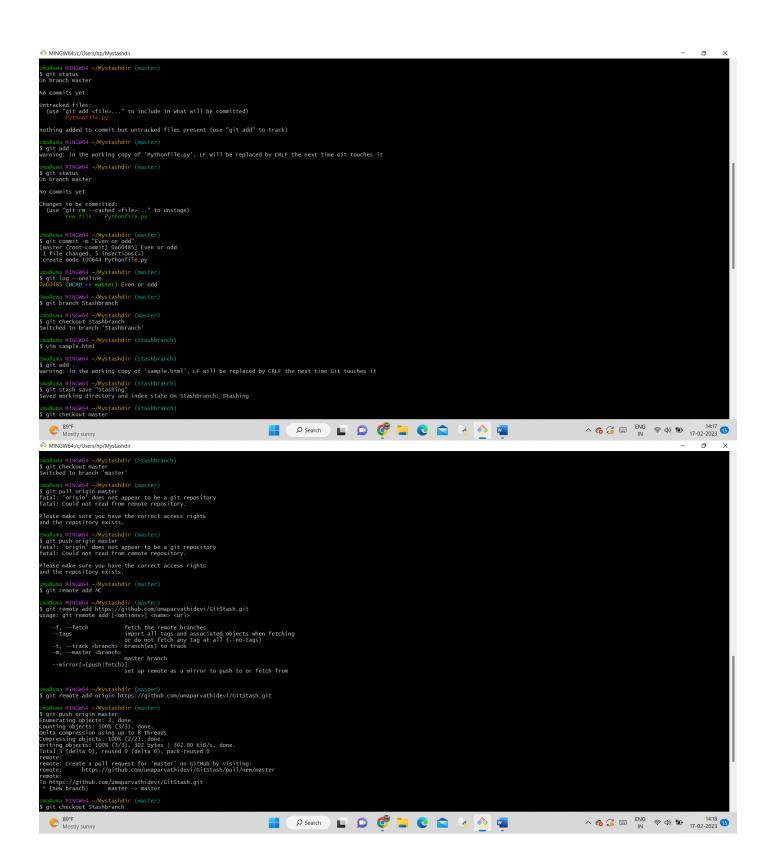
- Q1. Describe the usage of the git stash command by using an example and also state the process by giving the screenshot of all the commands written in git bash.
- **A**: git stash: Git stash is a command that is used when you want to work with the current state of the working directory later.

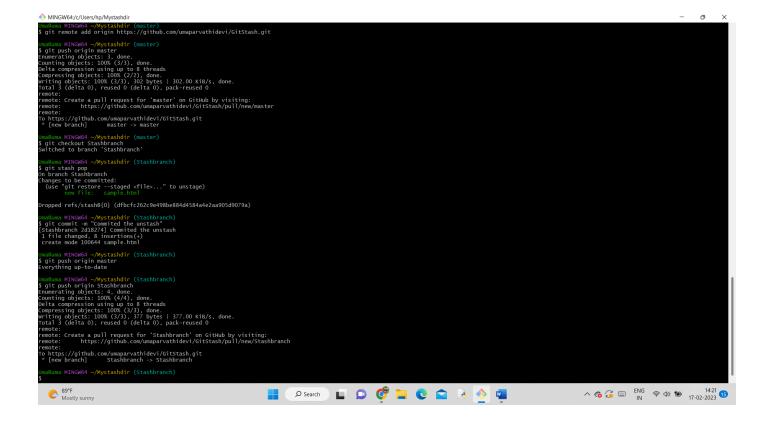
For example: You are working with a directory but suddenly you have to work on another directory but want to keep the current working directory without any lose. In this case you stash the current working directory so that you can use it later. You stash the current working directory after adding the working directory into the staging area.

Process:

- 1.Creat a directory and initialize it using commands
 - a. mkdir directory_name : to create directory
 - b. git init: Initializing the directory into git repository
- 2. Now create a file in that directory, add it into the staging area and then commit changes
 - a. vim filename: to create a file and input data into it
 - b. git add filename: Moving the file into staging are
 - c. git commit -m "commit message": To commit changes
- 3. Then create a new branch, cheackout into it and create a file in it.
 - a. git branch Branch_name: to create a new branch.
 - b. git checkout branch_name
- 4. Right now add the file into the staging area
- 5. After stash the current working directory using the following command
 - a. git stash save "Git message"
- 6. Now to restore the stash we use the below command
 - a. git stash pop
- 7. Push your branches into the remote repository.



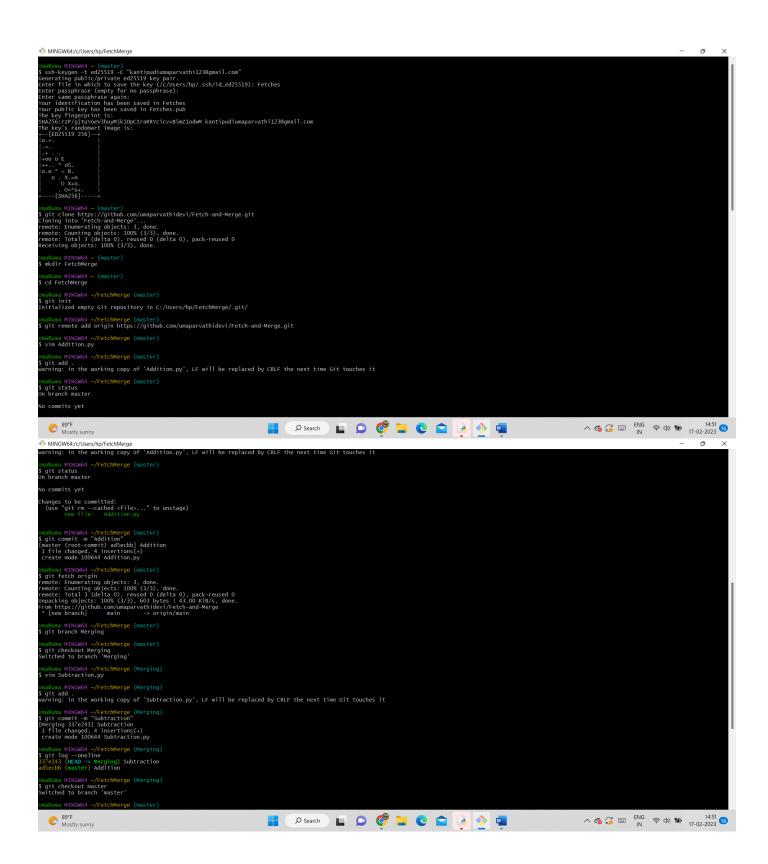




- Q2. By using a sample example of your choice, use the git fetch command and also use the git merge command and describe the whole process through a screenshot with all the commands and their output in git bash.
- A: Git Fetch: git fetch command is used to fetch code from the git repository. Git Merge: git merge command is used to merge two branches into one. Steps I followed and the commands I used in this process are:
 - 1.I created a new repository in my git hub account and then connected it to my local repository.
 - 2. Then I created a file in master branch and committed it.
 - 3. I fetched my content from remote repository.
 - 4. After I created a new branch and then again created a file in this new branch
 - 5.Later I committed all changes I made in my new file.
 - 6. At last but not least I merged the new branch into the master branch.
 - 7. Finally I push all my changes into the remote repository.

Commands I used in the process are:

- 1. git init: to initialize the directory.
- 2. git remote add origin "link": to connect local and git remote repository.
- 3. git status: to check the status of the repository.
- 4. git add .: to add changes made to the repository into the staging area.
- 5. git commit -m "message": To commit the changes.
- 6. git branch branch_name: to create a new branch.
- 7. git fetch origin: to fetch contents from remote repository.
- 8. git merge branch_name: to merge the mention branch into the current branch.
- 9. git log –oneline: to view the history of commits.



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Q3. State the difference between git fetch and git pull by doing a practical example in your git bash and attach a screenshot of all the processes.

A: Git fetch: git fetch command is used to fetch data from the remote repository and the syntax we use is "git fetch origin"
Git pull: git pull command is used to pull the data from the remote repository and the syntax we use is "git pull origin master"
The major difference between git fetch and git pull is that git fetch fetches the data from remote repository and doesn't make any changes to the local repository whereas git pull integrates the data it fetches from remote repository into the local repository.

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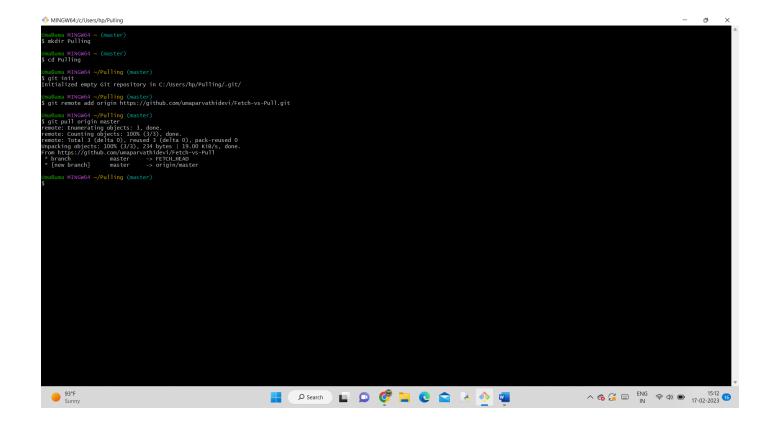
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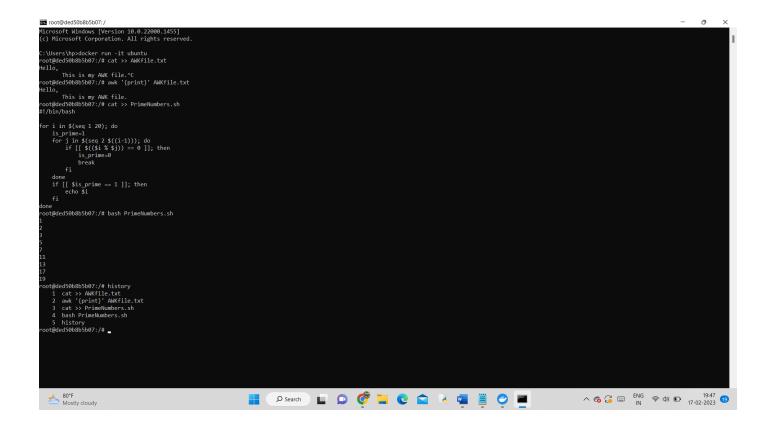
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Q4. Try to find out about the awk command and use it while reading a file created by yourself. Also, make a bash script file and try to find out the prime number from the range 1 to 20. The whole process should be carried out and by using the history command, give the screenshot of all the processes being carried out.

A: AWK command: Awk command is used for text process in Linux. It allows users to process and manipulate data and produce formatted reports.

Here I used aws '{print}' filename command to print the content of the file.



Q5. Set up a container and run a Ubuntu operating system. For this purpose, you can make use of the docker hub and run the container in interactive mode.

All the processes pertaining to this should be provided in a screenshot for grading.

A: Setting up a container: For setting up a container we use pull command ,pull command in docker is used to pull the images from the docker hub to our client machine.

To run a container: To the container in docker we use docker run -tf command .

In this process docker daemon is an intermediator that is used to pull images from docker hub to the client machine.

