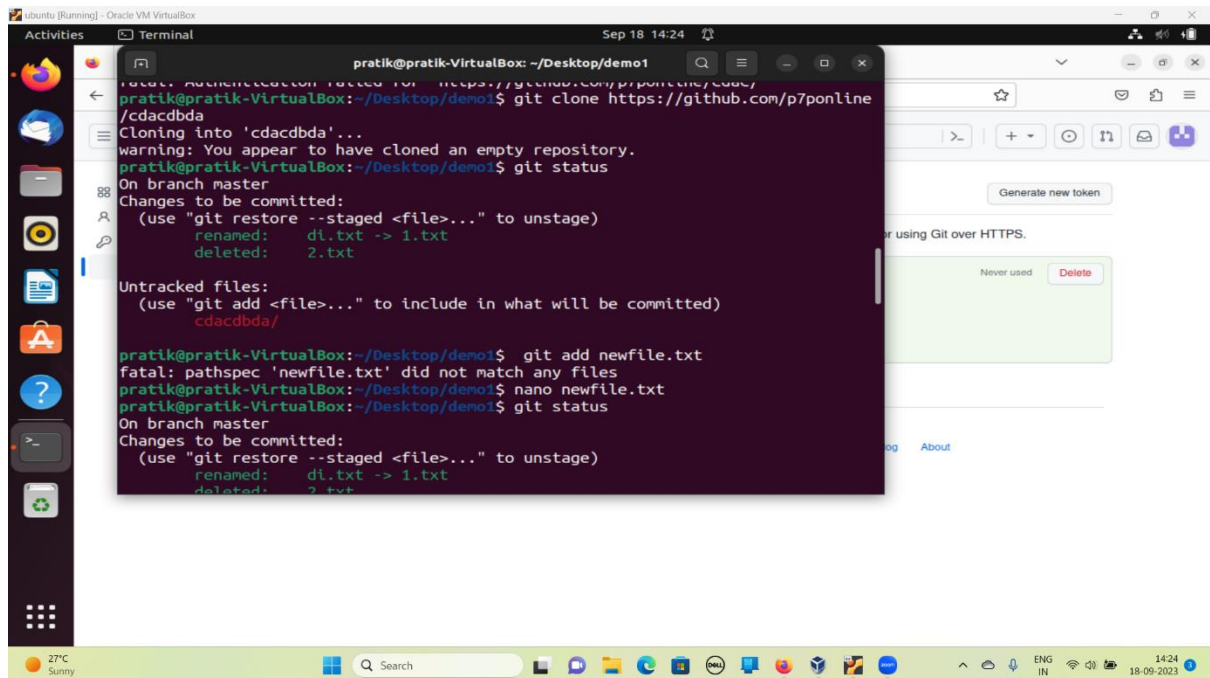


Q1)

Ans=

a) git clone-



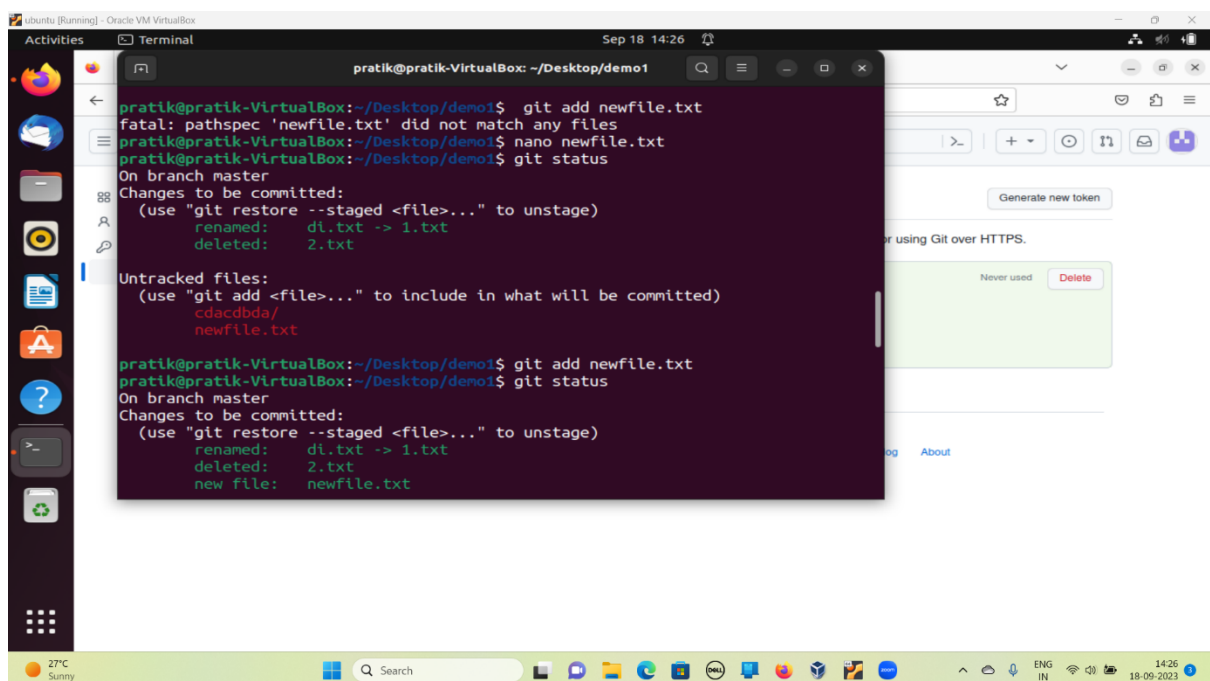
The screenshot shows a terminal window with the following commands and output:

```
pratik@pratik-VirtualBox: ~/Desktop/demo1
pratik@pratik-VirtualBox:~/Desktop/demo1$ git clone https://github.com/p7ponline/cdacdbda
Cloning into 'cdacdbda'...
warning: You appear to have cloned an empty repository.
pratik@pratik-VirtualBox:~/Desktop/demo1$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    renamed:   dl.txt -> 1.txt
    deleted:   2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    cdacdbda/

pratik@pratik-VirtualBox:~/Desktop/demo1$ git add newfile.txt
fatal: pathspec 'newfile.txt' did not match any files
pratik@pratik-VirtualBox:~/Desktop/demo1$ nano newfile.txt
pratik@pratik-VirtualBox:~/Desktop/demo1$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    renamed:   dl.txt -> 1.txt
    deleted:   2.txt
```

b) git add-



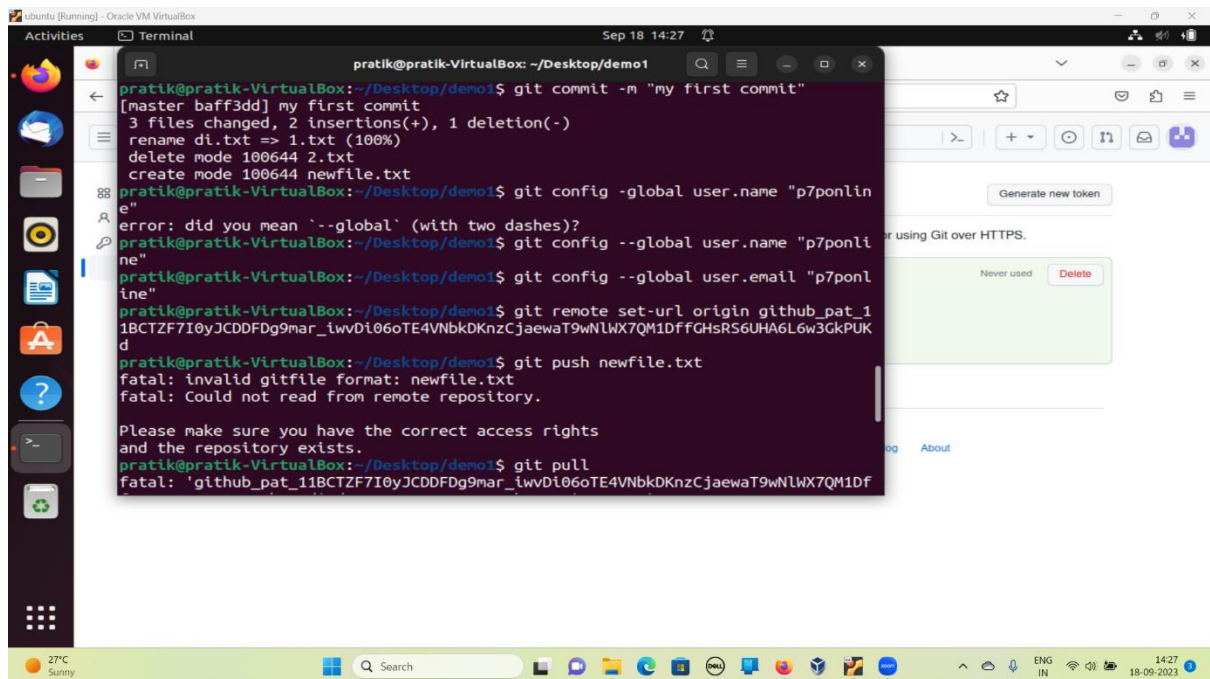
The screenshot shows a terminal window with the following commands and output:

```
pratik@pratik-VirtualBox:~/Desktop/demo1
pratik@pratik-VirtualBox:~/Desktop/demo1$ git add newfile.txt
fatal: pathspec 'newfile.txt' did not match any files
pratik@pratik-VirtualBox:~/Desktop/demo1$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    renamed:   dl.txt -> 1.txt
    deleted:   2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    cdacdbda/
    newfile.txt

pratik@pratik-VirtualBox:~/Desktop/demo1$ git add newfile.txt
pratik@pratik-VirtualBox:~/Desktop/demo1$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    renamed:   dl.txt -> 1.txt
    deleted:   2.txt
    new file:   newfile.txt
```

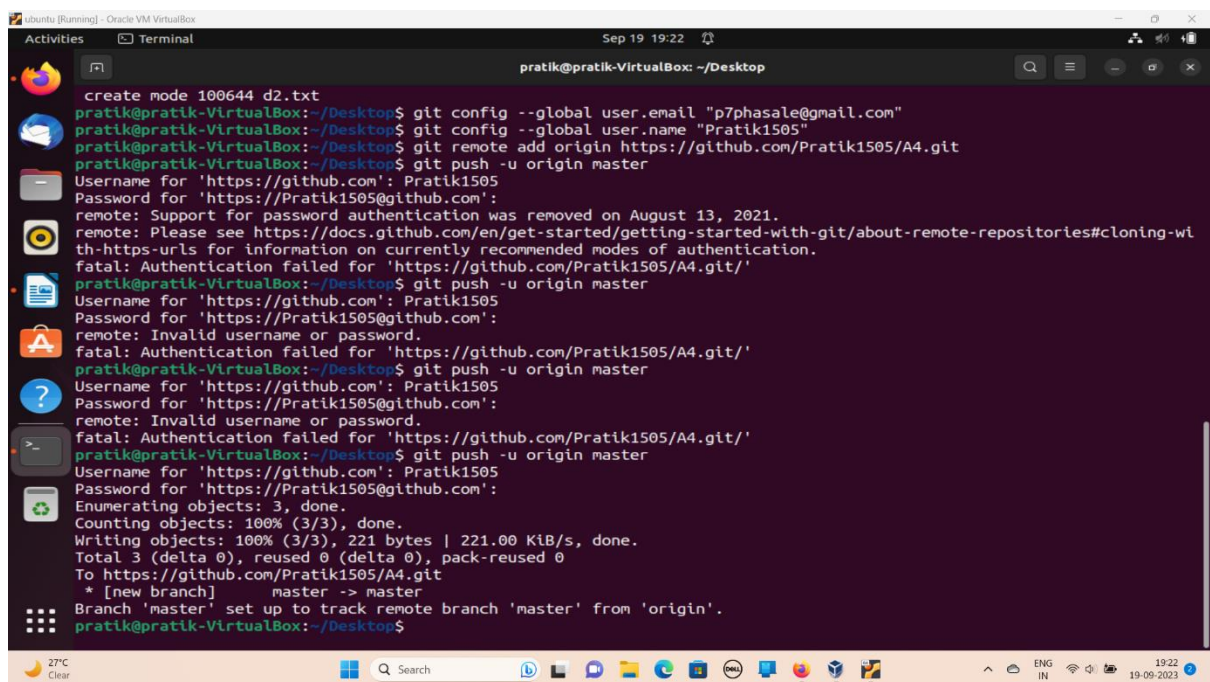
c) git commit-



```
pratik@pratik-VirtualBox: ~/Desktop/demo1
[master baff3dd] my first commit
3 files changed, 2 insertions(+), 1 deletion(-)
rename di.txt => 1.txt (100%)
delete mode 100644 2.txt
create mode 100644 newfile.txt
pratik@pratik-VirtualBox:~/Desktop/demo1$ git config --global user.name "p7ponline"
error: did you mean '--global' (with two dashes)?
pratik@pratik-VirtualBox:~/Desktop/demo1$ git config --global user.name "p7ponline"
pratik@pratik-VirtualBox:~/Desktop/demo1$ git config --global user.email "p7ponline"
pratik@pratik-VirtualBox:~/Desktop/demo1$ git remote set-url origin github_pat_11BCTZF7I0yJCDDFDg9mar_iwvDi06oTE4VNbkDKnzCjaewaT9wNLWX7QM1Df
pratik@pratik-VirtualBox:~/Desktop/demo1$ git push newfile.txt
fatal: invalid gitfile format: newfile.txt
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
pratik@pratik-VirtualBox:~/Desktop/demo1$ git pull
fatal: 'github_pat_11BCTZF7I0yJCDDFDg9mar_iwvDi06oTE4VNbkDKnzCjaewaT9wNLWX7QM1Df'
```

d) git push-

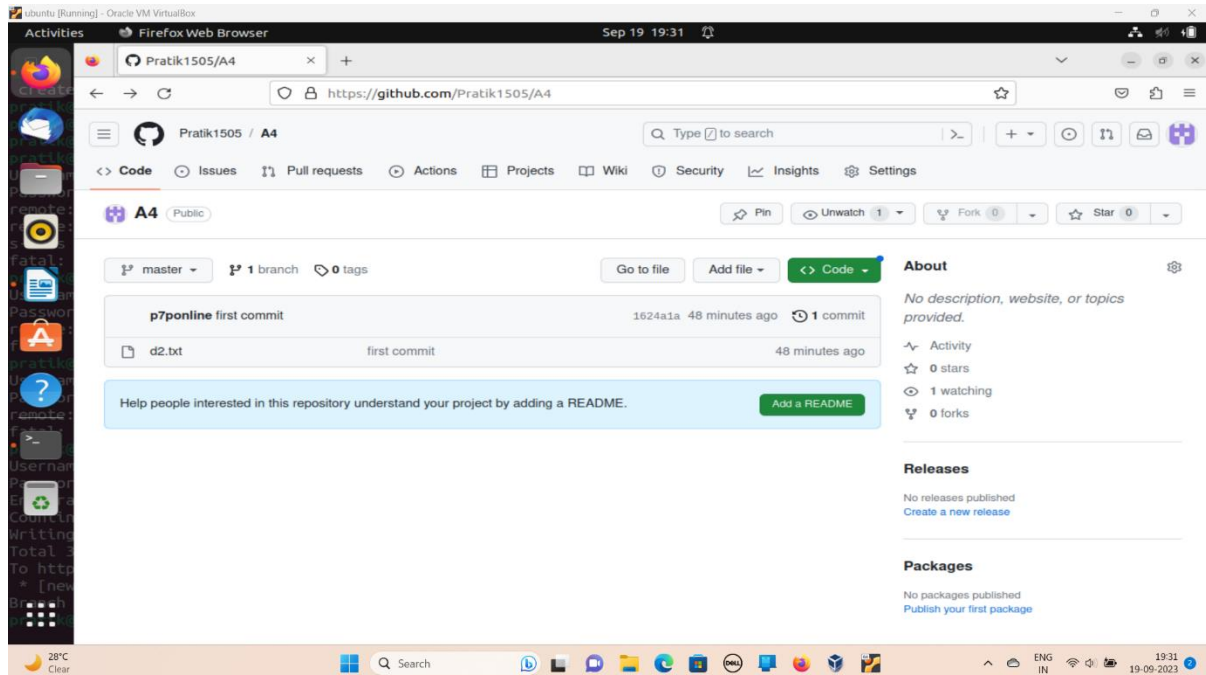


```
pratik@pratik-VirtualBox: ~/Desktop
create mode 100644 d2.txt
pratik@pratik-VirtualBox:~/Desktop$ git config --global user.email "p7phasale@gmail.com"
pratik@pratik-VirtualBox:~/Desktop$ git config --global user.name "Pratik1505"
pratik@pratik-VirtualBox:~/Desktop$ git remote add origin https://github.com/Pratik1505/A4.git
pratik@pratik-VirtualBox:~/Desktop$ git push -u origin master
Username for 'https://github.com': Pratik1505
Password for 'https://Pratik1505@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/en/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended modes of authentication.
fatal: Authentication failed for 'https://github.com/Pratik1505/A4.git/'
pratik@pratik-VirtualBox:~/Desktop$ git push -u origin master
Username for 'https://github.com': Pratik1505
Password for 'https://Pratik1505@github.com':
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/Pratik1505/A4.git/'
pratik@pratik-VirtualBox:~/Desktop$ git push -u origin master
Username for 'https://github.com': Pratik1505
Password for 'https://Pratik1505@github.com':
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/Pratik1505/A4.git/'
pratik@pratik-VirtualBox:~/Desktop$ git push -u origin master
Username for 'https://github.com': Pratik1505
Password for 'https://Pratik1505@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 221 bytes | 221.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Pratik1505/A4.git
 * [new branch] master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
pratik@pratik-VirtualBox:~/Desktop$
```

Q2)

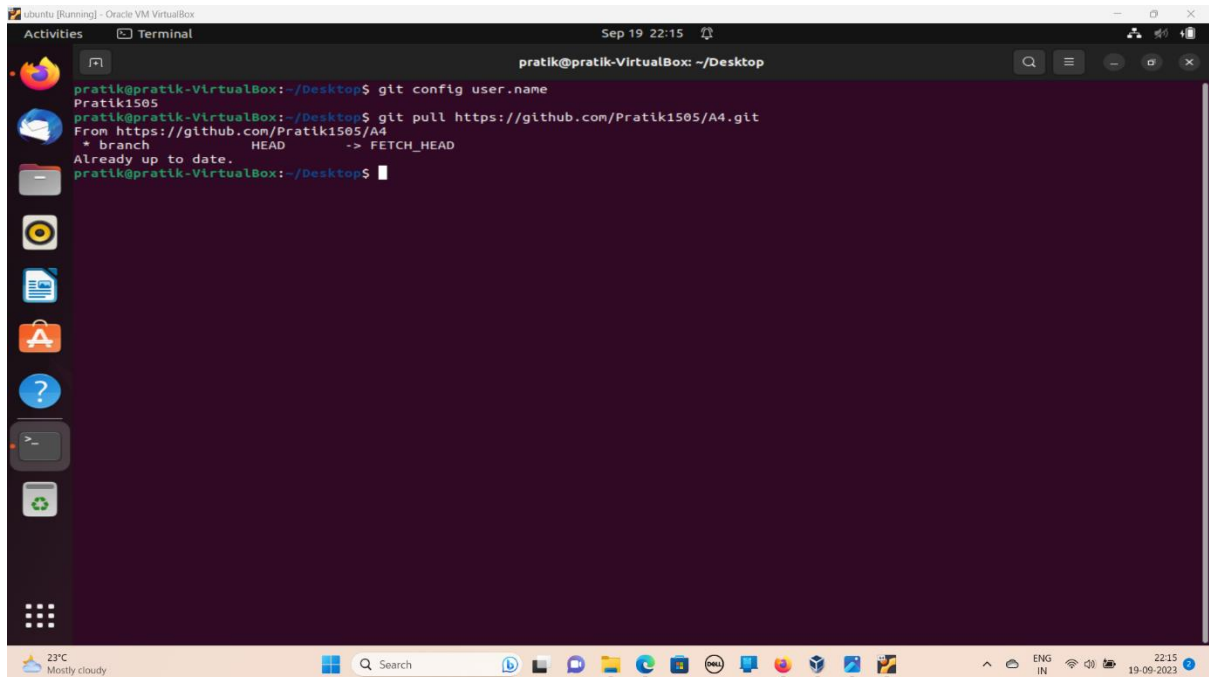
Ans= In the context of version control systems like Git, the "push" and "pull" commands are fundamental for collaborating with others and managing changes to a codebase

a) git push-



The git push command is used to send your committed changes commits from your local repository to a remote repository, typically hosted on a server like GitHub. It is a way to publish your local changes to the shared repository so that others can access and integrate your changes into their local repositories.

b) git pull-

A screenshot of a terminal window titled 'pratik@pratik-VirtualBox: ~/Desktop'. The terminal shows the following commands and output:

```
pratik@pratik-VirtualBox:~/Desktop$ git config user.name
Pratik1505
pratik@pratik-VirtualBox:~/Desktop$ git pull https://github.com/Pratik1505/A4.git
From https://github.com/Pratik1505/A4
 * branch            HEAD       -> FETCH_HEAD
Already up to date.
pratik@pratik-VirtualBox:~/Desktop$
```

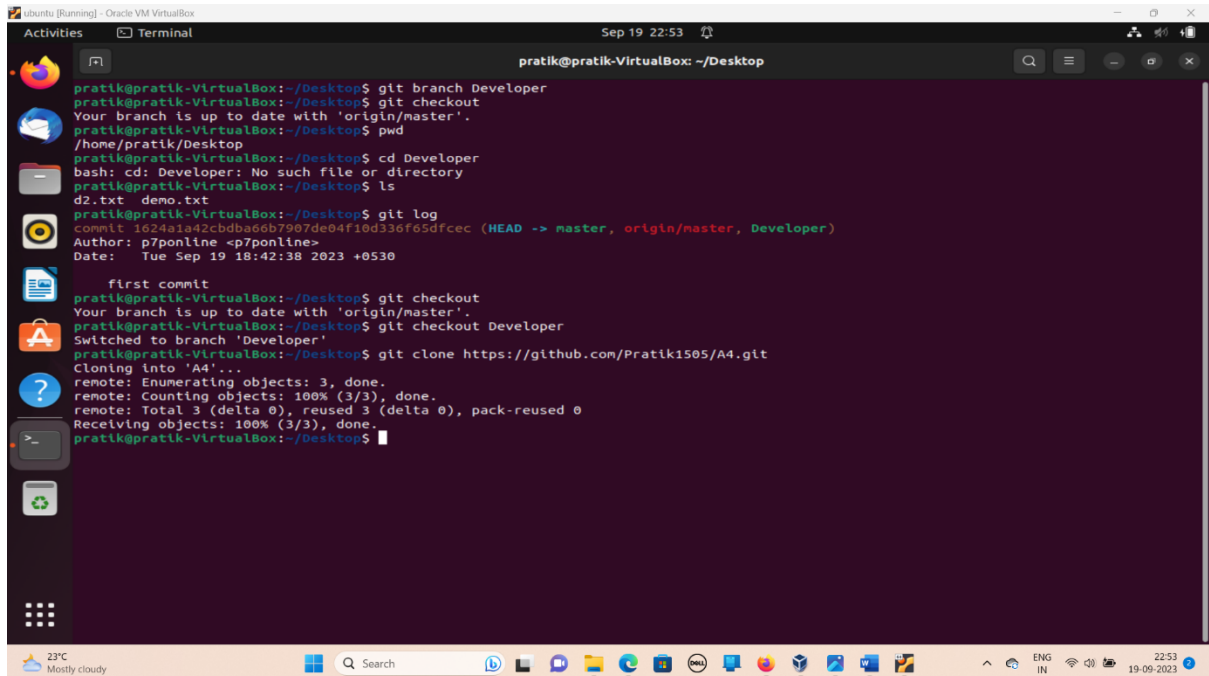
The terminal window is part of a desktop environment with a taskbar at the bottom showing various application icons and system status information like temperature (23°C) and time (22:15, 19-09-2023).

The git pull command is used to fetch and merge changes from a remote repository to your local repository. It fetches the changes from the remote repository and automatically merges them into your current branch.

Q3)

Ans=

a) git clone-

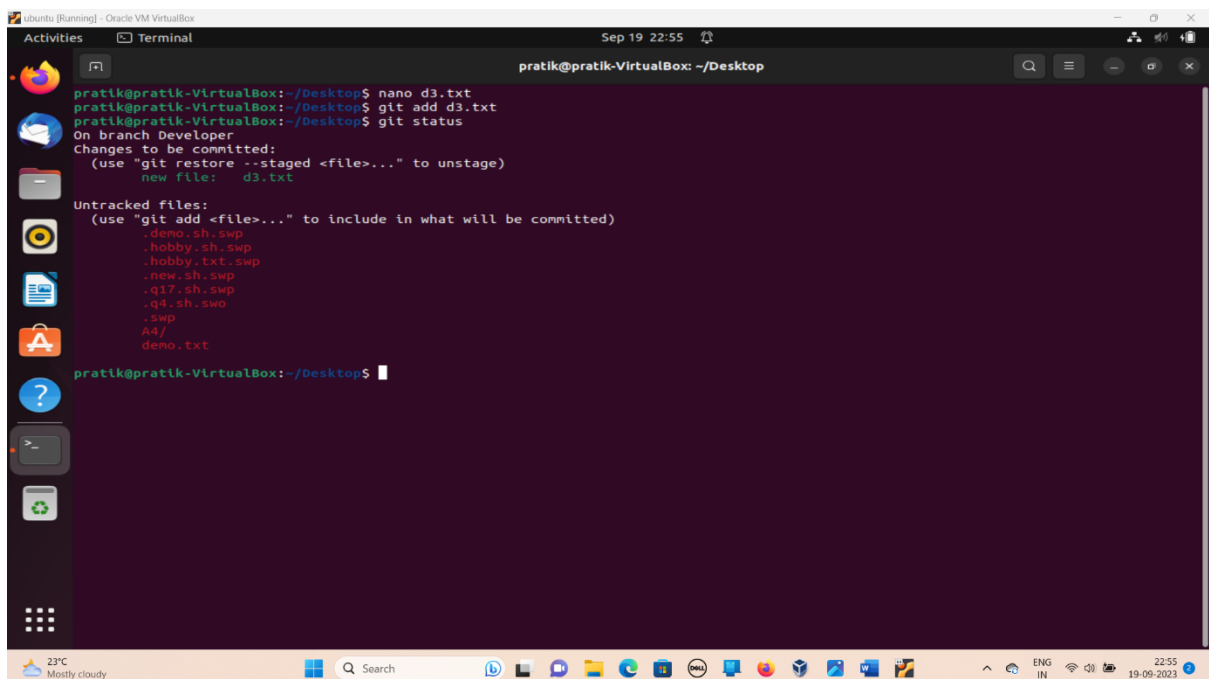


A terminal window titled 'pratik@pratik-VirtualBox: ~/Desktop' showing the following commands and output:

```
pratik@pratik-VirtualBox:~/Desktop$ git branch Developer
pratik@pratik-VirtualBox:~/Desktop$ git checkout
Your branch is up to date with 'origin/master'.
pratik@pratik-VirtualBox:~/Desktop$ pwd
/home/pratik/Desktop
pratik@pratik-VirtualBox:~/Desktop$ cd Developer
bash: cd: Developer: No such file or directory
pratik@pratik-VirtualBox:~/Desktop$ ls
d2.txt  deno.txt
pratik@pratik-VirtualBox:~/Desktop$ git log
commit 1624a1a42cbdb6d6b7997de04f10d336f65dfcec (HEAD -> master, origin/master, Developer)
Author: p7ponline <p7ponline>
Date: Tue Sep 19 18:42:38 2023 +0530

    first commit
pratik@pratik-VirtualBox:~/Desktop$ git checkout
Your branch is up to date with 'origin/master'.
pratik@pratik-VirtualBox:~/Desktop$ git checkout Developer
Switched to branch 'Developer'
pratik@pratik-VirtualBox:~/Desktop$ git clone https://github.com/Pratik1505/A4.git
Cloning into 'A4'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
pratik@pratik-VirtualBox:~/Desktop$
```

b) git add-

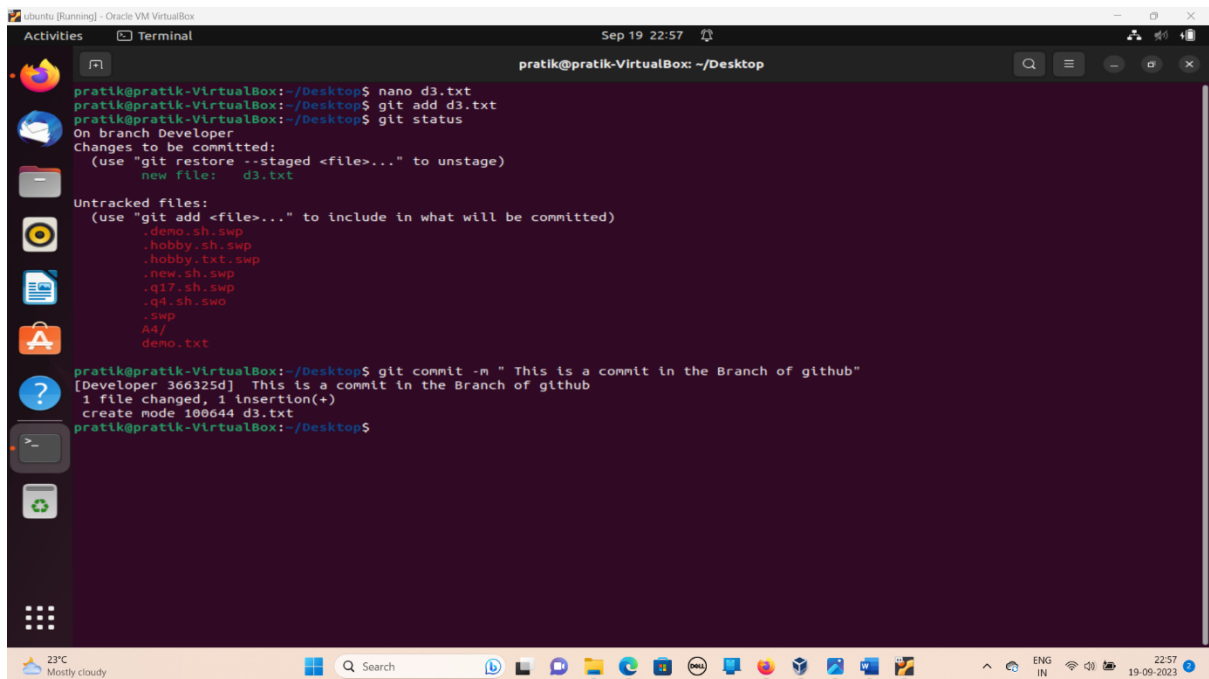


A terminal window titled 'pratik@pratik-VirtualBox: ~/Desktop' showing the following commands and output:

```
pratik@pratik-VirtualBox:~/Desktop$ nano d3.txt
pratik@pratik-VirtualBox:~/Desktop$ git add d3.txt
pratik@pratik-VirtualBox:~/Desktop$ git status
On branch Developer
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   d3.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .demo.sh.swp
    .hobby.sh.swp
    .hobby.txt.swp
    .new.sh.swp
    .q17.sh.swp
    .q4.sh.swo
    .swp
    A4/
    deno.txt
pratik@pratik-VirtualBox:~/Desktop$
```

c) git commit-

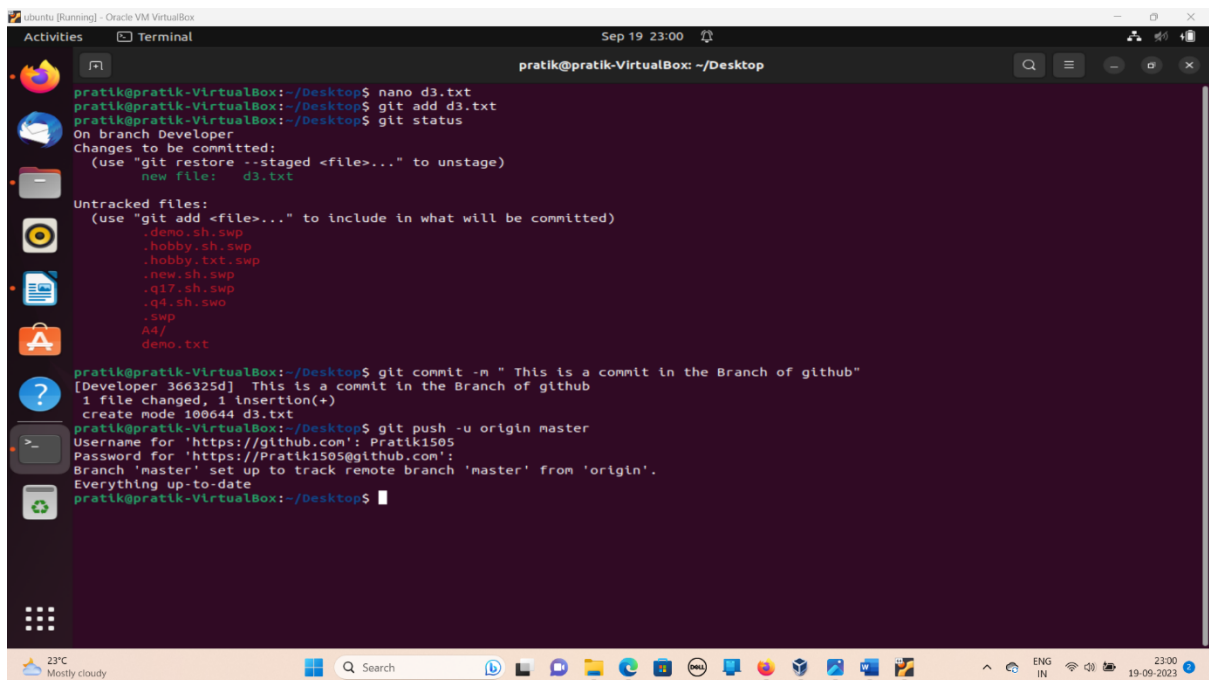
A terminal window titled 'pratik@pratik-VirtualBox: ~/Desktop' showing the execution of git commands. The user runs 'nano d3.txt', 'git add d3.txt', and 'git status'. The status shows 'On branch Developer' and 'Changes to be committed: (use "git restore --staged <file>..." to unstage) new file: d3.txt'. It also lists 'Untracked files: (use "git add <file>..." to include in what will be committed)' including .demo.sh.swp, .hobby.sh.swp, .hobby.txt.swp, .new.sh.swp, .q17.sh.swp, .q4.sh.swp, .swp, A4/, and demo.txt. Finally, the user runs 'git commit -m "This is a commit in the Branch of github"', which results in '[Developer 366325d] This is a commit in the Branch of github', '1 file changed, 1 insertion(+)', and 'create mode 100644 d3.txt'.

```
pratik@pratik-VirtualBox:~/Desktop$ nano d3.txt
pratik@pratik-VirtualBox:~/Desktop$ git add d3.txt
pratik@pratik-VirtualBox:~/Desktop$ git status
On branch Developer
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   d3.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .demo.sh.swp
    .hobby.sh.swp
    .hobby.txt.swp
    .new.sh.swp
    .q17.sh.swp
    .q4.sh.swp
    .swp
    A4/
    demo.txt

pratik@pratik-VirtualBox:~/Desktop$ git commit -m " This is a commit in the Branch of github"
[Developer 366325d] This is a commit in the Branch of github
1 file changed, 1 insertion(+)
create mode 100644 d3.txt
pratik@pratik-VirtualBox:~/Desktop$
```

d) git push-

A terminal window titled 'pratik@pratik-VirtualBox: ~/Desktop' showing the execution of git commands. It repeats the previous steps: 'nano d3.txt', 'git add d3.txt', and 'git status'. Then, the user runs 'git commit -m "This is a commit in the Branch of github"', resulting in '[Developer 366325d] This is a commit in the Branch of github', '1 file changed, 1 insertion(+)', and 'create mode 100644 d3.txt'. Finally, the user runs 'git push -u origin master', which prompts for 'Username for \'https://github.com\': Pratik1505' and 'Password for \'https://Pratik1505@github.com\':', and then reports 'Branch \'master\' set up to track remote branch \'master\' from \'origin\'. Everything up-to-date'.

```
pratik@pratik-VirtualBox:~/Desktop$ nano d3.txt
pratik@pratik-VirtualBox:~/Desktop$ git add d3.txt
pratik@pratik-VirtualBox:~/Desktop$ git status
On branch Developer
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   d3.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .demo.sh.swp
    .hobby.sh.swp
    .hobby.txt.swp
    .new.sh.swp
    .q17.sh.swp
    .q4.sh.swp
    .swp
    A4/
    demo.txt

pratik@pratik-VirtualBox:~/Desktop$ git commit -m " This is a commit in the Branch of github"
[Developer 366325d] This is a commit in the Branch of github
1 file changed, 1 insertion(+)
create mode 100644 d3.txt
pratik@pratik-VirtualBox:~/Desktop$ git push -u origin master
Username for 'https://github.com': Pratik1505
Password for 'https://Pratik1505@github.com':
Branch 'master' set up to track remote branch 'master' from 'origin'.
Everything up-to-date
pratik@pratik-VirtualBox:~/Desktop$
```