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Group\_Numer:5

## Exercise 2

### 1. Git Setup

<https://confluence.atlassian.com/bitbucket/set-up-git-744723531.html>

Command :

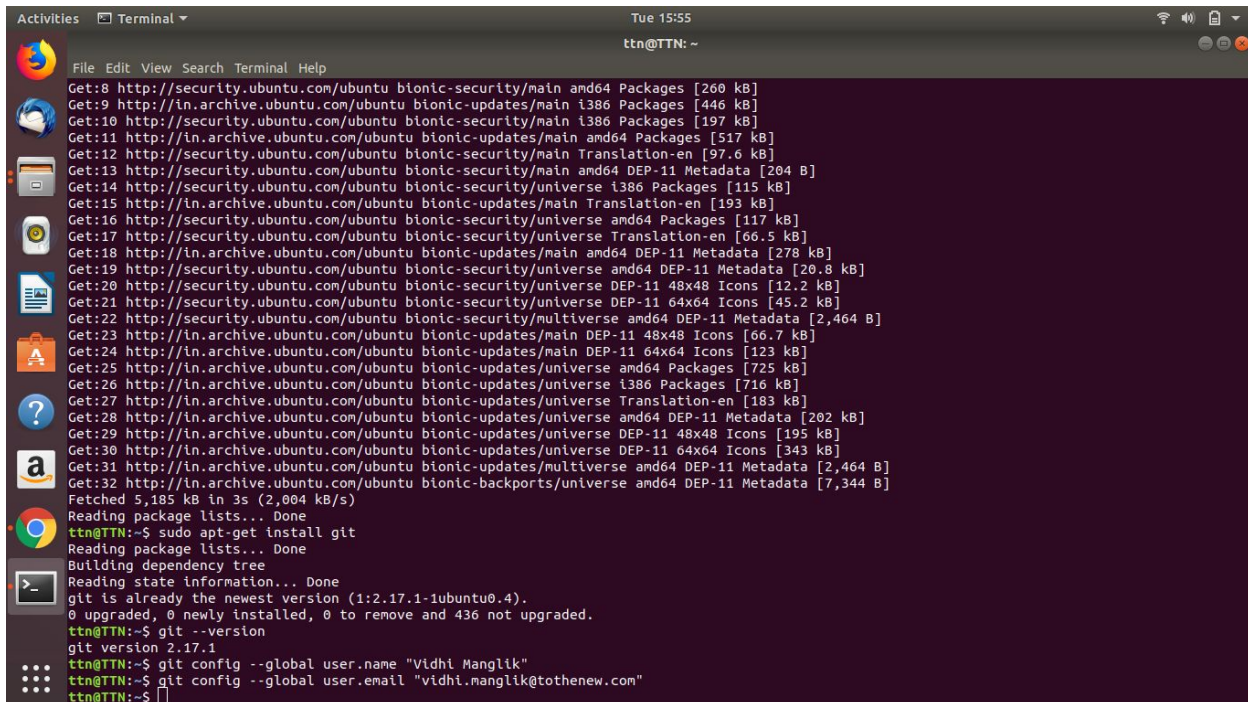
```
$ sudo apt-get update
```

```
$ sudo apt-get install git
```

```
$ git --version
```

```
$ git config --global user.name "Vidhi Manglik"
```

```
$ git config --global user.email "vidhi.manglik@tothenew.com"
```

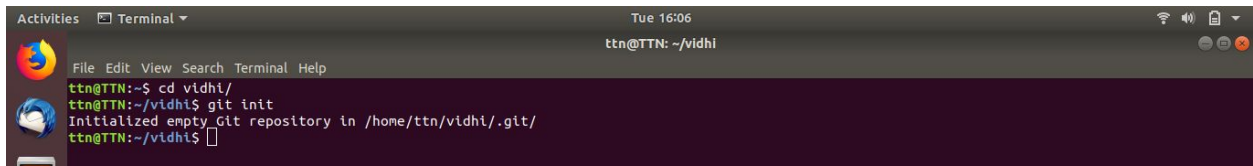


```
Activities Terminal Tue 15:55 ttn@TTN: ~
File Edit View Search Terminal Help
Get:8 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [260 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu bionic-updates/main i386 Packages [446 kB]
Get:10 http://security.ubuntu.com/ubuntu bionic-security/main i386 Packages [197 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [517 kB]
Get:12 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [97.6 kB]
Get:13 http://security.ubuntu.com/ubuntu bionic-security/main amd64 DEP-11 Metadata [204 B]
Get:14 http://security.ubuntu.com/ubuntu bionic-security/universe i386 Packages [115 kB]
Get:15 http://in.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en [193 kB]
Get:16 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [117 kB]
Get:17 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [66.5 kB]
Get:18 http://in.archive.ubuntu.com/ubuntu bionic-updates/main amd64 DEP-11 Metadata [278 kB]
Get:19 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 DEP-11 Metadata [20.8 kB]
Get:20 http://security.ubuntu.com/ubuntu bionic-security/universe DEP-11 48x48 Icons [12.2 kB]
Get:21 http://security.ubuntu.com/ubuntu bionic-security/universe DEP-11 64x64 Icons [45.2 kB]
Get:22 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 DEP-11 Metadata [2,464 B]
Get:23 http://in.archive.ubuntu.com/ubuntu bionic-updates/main DEP-11 48x48 Icons [66.7 kB]
Get:24 http://in.archive.ubuntu.com/ubuntu bionic-updates/main DEP-11 64x64 Icons [123 kB]
Get:25 http://in.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [725 kB]
Get:26 http://in.archive.ubuntu.com/ubuntu bionic-updates/universe i386 Packages [716 kB]
Get:27 http://in.archive.ubuntu.com/ubuntu bionic-updates/universe Translation-en [183 kB]
Get:28 http://in.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 DEP-11 Metadata [202 kB]
Get:29 http://in.archive.ubuntu.com/ubuntu bionic-updates/universe DEP-11 48x48 Icons [195 kB]
Get:30 http://in.archive.ubuntu.com/ubuntu bionic-updates/universe DEP-11 64x64 Icons [343 kB]
Get:31 http://in.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 DEP-11 Metadata [2,464 B]
Get:32 http://in.archive.ubuntu.com/ubuntu bionic-backports/universe amd64 DEP-11 Metadata [7,344 B]
Fetched 5,185 kB in 3s (2,004 kB/s)
Reading package lists... Done
ttn@TTN:~$ sudo apt-get install git
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version (1:2.17.1-1ubuntu0.4).
0 upgraded, 0 newly installed, 0 to remove and 436 not upgraded.
ttn@TTN:~$ git --version
git version 2.17.1
ttn@TTN:~$ git config --global user.name "Vidhi Manglik"
ttn@TTN:~$ git config --global user.email "vidhi.manglik@tothenew.com"
ttn@TTN:~$
```

## 2. Initialize a Git Repository

Command :

\$ git init

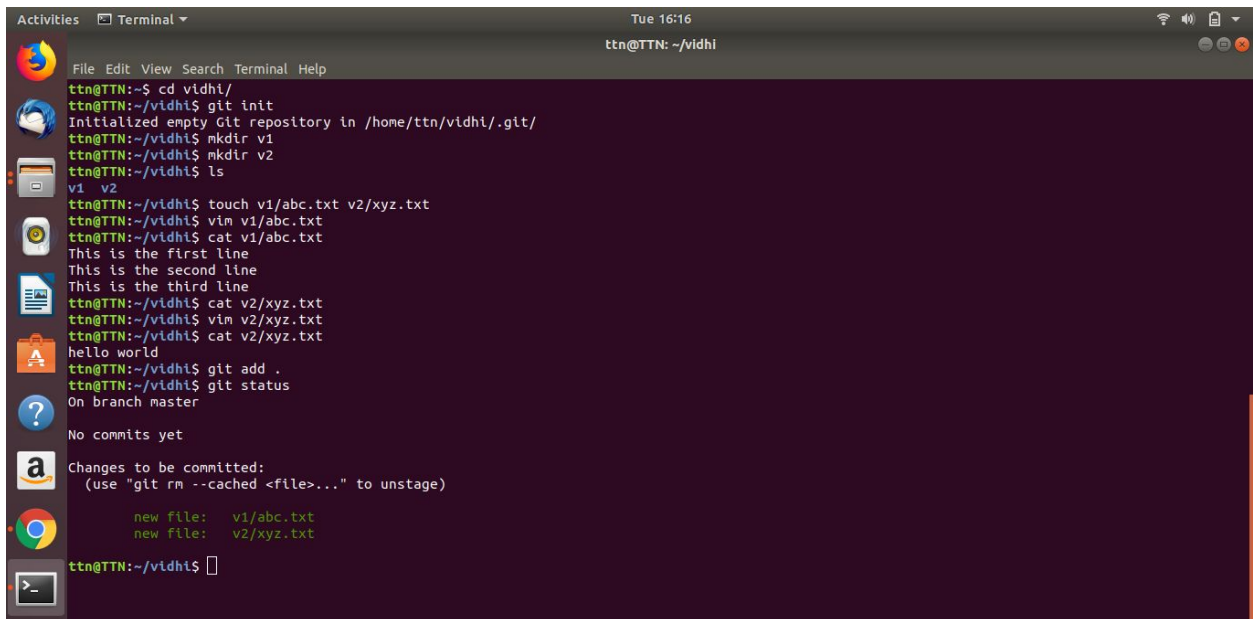
A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 16:06, ttn@TTN: ~/vidhi). The terminal shows the following commands and output:

```
ttn@TTN:~$ cd vidhi/  
ttn@TTN:~/vidhi$ git init  
Initialized empty Git repository in /home/ttn/vidhi/.git/  
ttn@TTN:~/vidhi$
```

## 3. Add files to the repository

Command :

\$ git add .

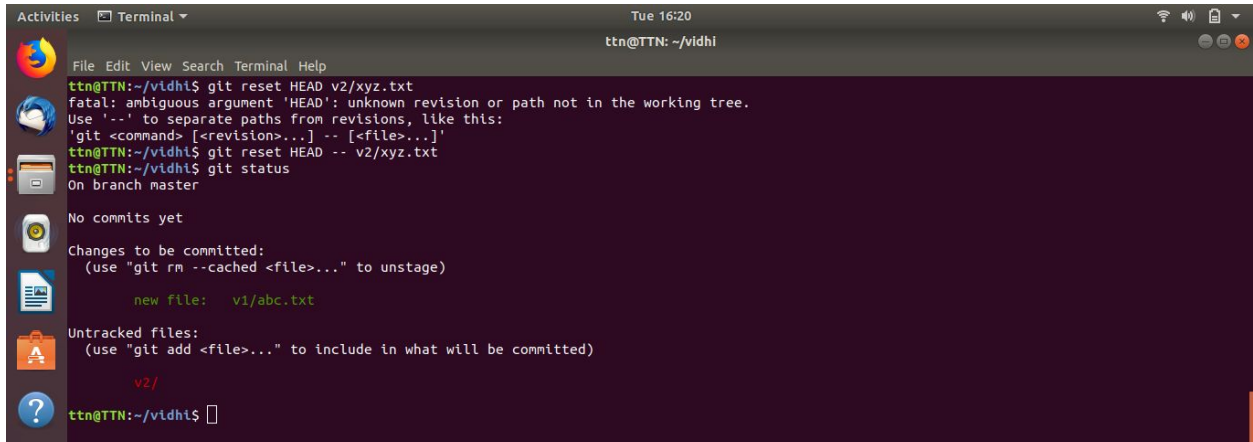
A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 16:16, ttn@TTN: ~/vidhi). The terminal shows the following commands and output:

```
ttn@TTN:~$ cd vidhi/  
ttn@TTN:~/vidhi$ git init  
Initialized empty Git repository in /home/ttn/vidhi/.git/  
ttn@TTN:~/vidhi$ mkdir v1  
ttn@TTN:~/vidhi$ mkdir v2  
ttn@TTN:~/vidhi$ ls  
v1 v2  
ttn@TTN:~/vidhi$ touch v1/abc.txt v2/xyz.txt  
ttn@TTN:~/vidhi$ vim v1/abc.txt  
ttn@TTN:~/vidhi$ cat v1/abc.txt  
This is the first line  
This is the second line  
This is the third line  
ttn@TTN:~/vidhi$ cat v2/xyz.txt  
ttn@TTN:~/vidhi$ vim v2/xyz.txt  
ttn@TTN:~/vidhi$ cat v2/xyz.txt  
hello world  
ttn@TTN:~/vidhi$ git add .  
ttn@TTN:~/vidhi$ git status  
On branch master  
No commits yet  
Changes to be committed:  
  (use "git rm --cached <file>..." to unstage)  
        new file:   v1/abc.txt  
        new file:   v2/xyz.txt  
ttn@TTN:~/vidhi$
```

#### 4. Unstage 1 file

Command :

```
$ git reset HEAD -- v2/xyz.txt
```



```
Activities Terminal Tue 16:20 ttn@TTN: ~/vidhi
File Edit View Search Terminal Help
ttn@TTN:~/vidhi$ git reset HEAD v2/xyz.txt
fatal: ambiguous argument 'HEAD': unknown revision or path not in the working tree.
Use '--' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]'
ttn@TTN:~/vidhi$ git reset HEAD -- v2/xyz.txt
ttn@TTN:~/vidhi$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   v1/abc.txt

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

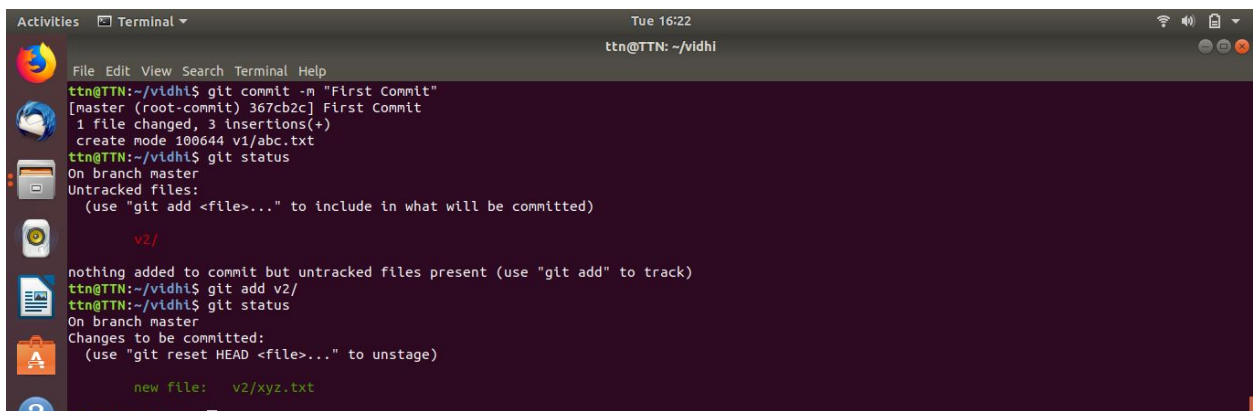
        v2/

ttn@TTN:~/vidhi$
```

#### 5. Commit the file

Command :

```
$ git commit -m "First Commit"
```



```
Activities Terminal Tue 16:22 ttn@TTN: ~/vidhi
File Edit View Search Terminal Help
ttn@TTN:~/vidhi$ git commit -m "First Commit"
[master (root-commit) 367cb2c] First Commit
1 file changed, 3 insertions(+)
create mode 100644 v1/abc.txt
ttn@TTN:~/vidhi$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)

        v2/

nothing added to commit but untracked files present (use "git add" to track)
ttn@TTN:~/vidhi$ git add v2/
ttn@TTN:~/vidhi$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

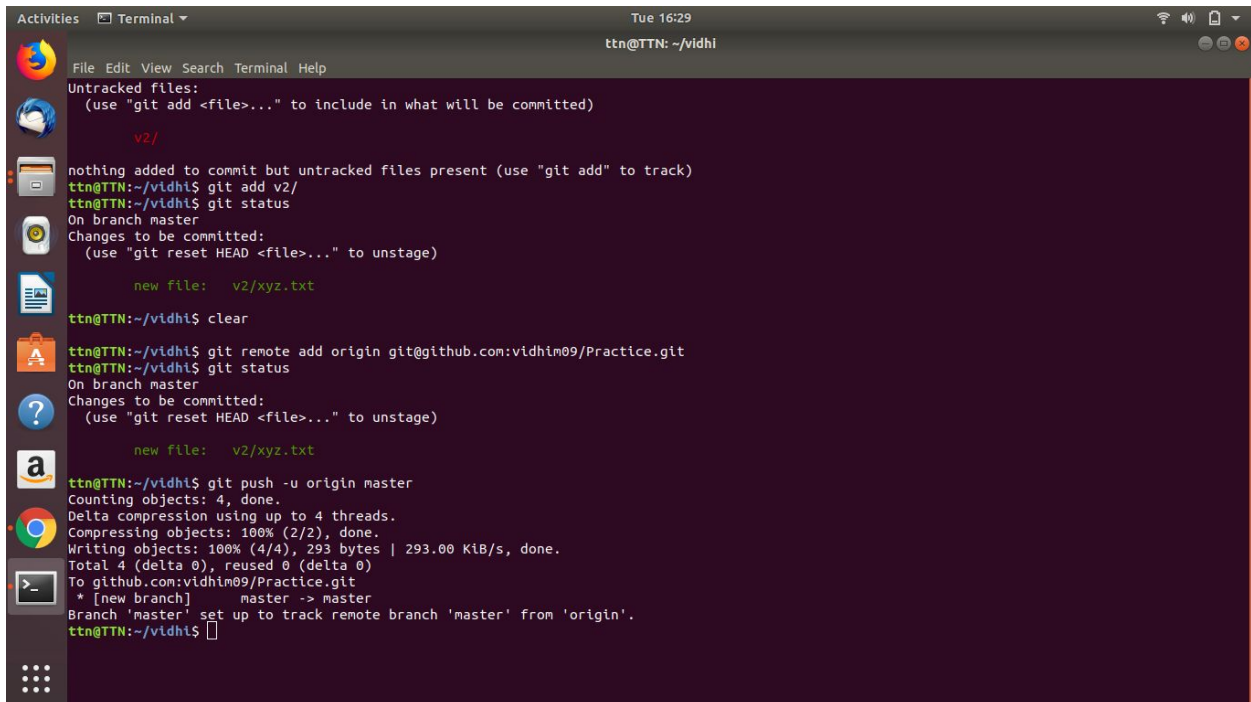
        new file:   v2/xyz.txt

ttn@TTN:~/vidhi$
```

## 6. Add a remote

Command :

```
$ git remote add origin git@github.com:vidhim09/Practice.git
```



```
Activities Terminal Tue 16:29 ttn@TTN: ~/vidhi
File Edit View Search Terminal Help
Untracked files:
(use "git add <file>..." to include in what will be committed)

v2/

nothing added to commit but untracked files present (use "git add" to track)
ttn@TTN:~/vidhi$ git add v2/
ttn@TTN:~/vidhi$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   v2/xyz.txt

ttn@TTN:~/vidhi$ clear
ttn@TTN:~/vidhi$ git remote add origin git@github.com:vidhim09/Practice.git
ttn@TTN:~/vidhi$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

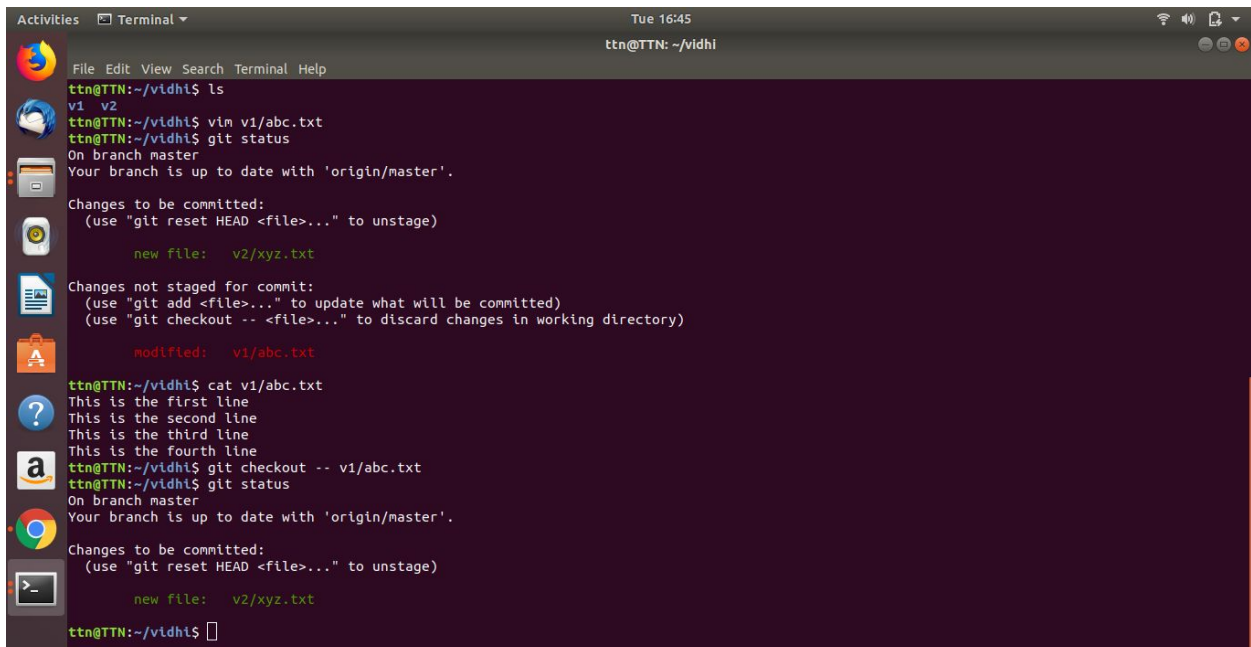
    new file:   v2/xyz.txt

ttn@TTN:~/vidhi$ git push -u origin master
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 293 bytes | 293.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To github.com:vidhim09/Practice.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
ttn@TTN:~/vidhi$
```

## 7. Undo changes to a particular file

Command :

```
$ git checkout -- v1/abc.txt
```



```
Activities Terminal Tue 16:45 ttn@TTN: ~/vidhi
File Edit View Search Terminal Help
ttn@TTN:~/vidhi$ ls
v1 v2
ttn@TTN:~/vidhi$ vim v1/abc.txt
ttn@TTN:~/vidhi$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   v2/xyz.txt

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   v1/abc.txt

ttn@TTN:~/vidhi$ cat v1/abc.txt
This is the first line
This is the second line
This is the third line
This is the fourth line
ttn@TTN:~/vidhi$ git checkout -- v1/abc.txt
ttn@TTN:~/vidhi$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

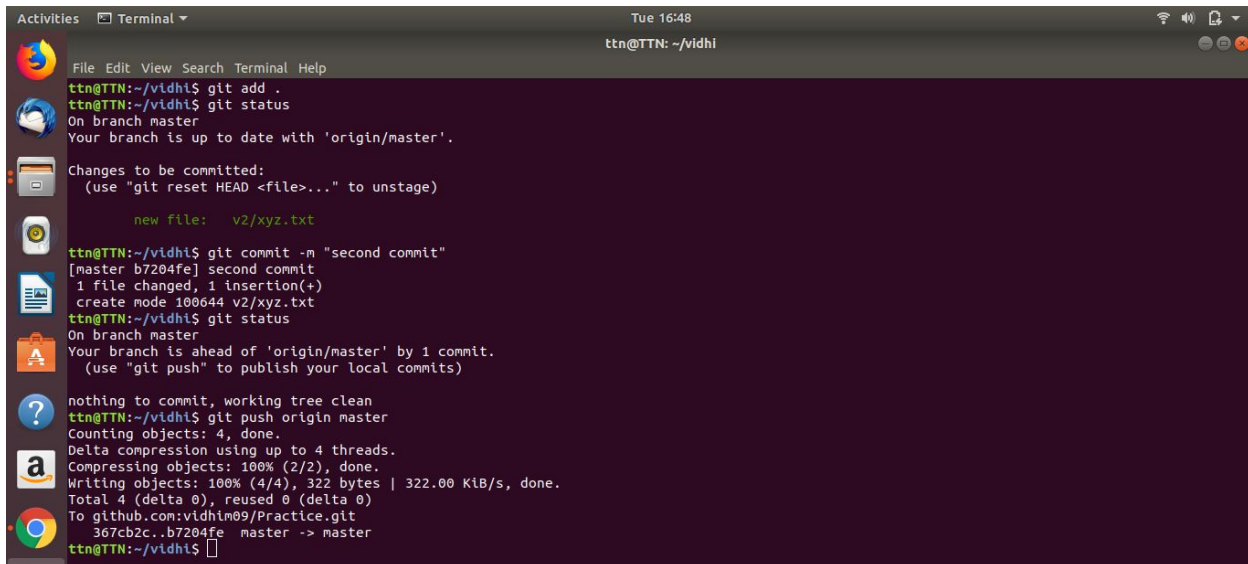
    new file:   v2/xyz.txt

ttn@TTN:~/vidhi$
```

## 8. Push changes to Github

Command :

\$ git push origin master

A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 16:48, ttn@TTN: ~/vidhi). The terminal shows the following commands and output:

```
ttn@TTN:~/vidhi$ git add .
ttn@TTN:~/vidhi$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   v2/xyz.txt

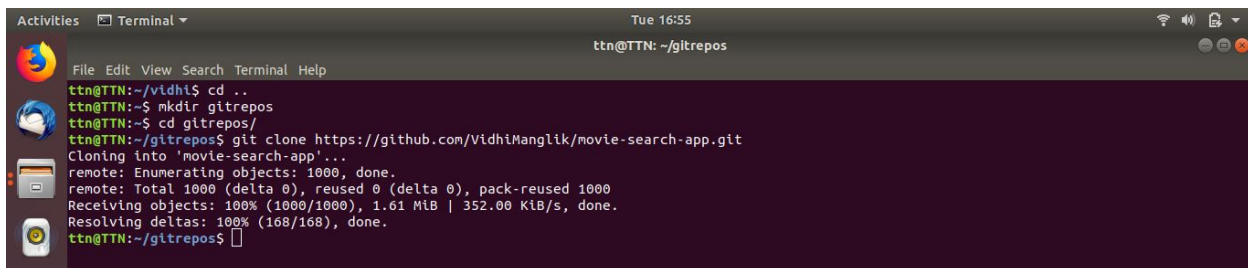
ttn@TTN:~/vidhi$ git commit -m "second commit"
[master b7204fe] second commit
 1 file changed, 1 insertion(+)
 create mode 100644 v2/xyz.txt
ttn@TTN:~/vidhi$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
ttn@TTN:~/vidhi$ git push origin master
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 322 bytes | 322.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To github.com:vidhim09/Practice.git
   367cb2c..b7204fe  master -> master
ttn@TTN:~/vidhi$
```

## 9. Clone the repository

Command :

\$ git clone https://github.com/vidhim09/Practice.git

A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 16:55, ttn@TTN: ~/gitrepos). The terminal shows the following commands and output:

```
ttn@TTN:~/vidhi$ cd ..
ttn@TTN:~$ mkdir gitrepos
ttn@TTN:~$ cd gitrepos/
ttn@TTN:~/gitrepos$ git clone https://github.com/VidhiManglik/movie-search-app.git
Cloning into 'movie-search-app'...
remote: Enumerating objects: 1000, done.
remote: Total 1000 (delta 0), reused 0 (delta 0), pack-reused 1000
Receiving objects: 100% (1000/1000), 1.61 MiB | 352.00 KiB/s, done.
Resolving deltas: 100% (168/168), done.
ttn@TTN:~/gitrepos$
```



## 10. Add changes to one of the copies and pull the changes in the other.

```
Activities Terminal Tue 17:15 ttn@TTN: ~/vidhi
File Edit View Search Terminal Help
(use "git add <file>..." to update what will be committed)
(use "git checkout -- <file>..." to discard changes in working directory)

modified:   v2/xyz.txt

no changes added to commit (use "git add" and/or "git commit -a")
ttn@TTN:~/gitrepos/Practice$ git add .
ttn@TTN:~/gitrepos/Practice$ git commit -m "Edit by other"
[master 3bf7364] Edit by other
1 file changed, 2 insertions(+)
ttn@TTN:~/gitrepos/Practice$ git push origin master
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 333 bytes | 333.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To github.com:vidhim09/Practice.git
b7204fe..3bf7364 master -> master
ttn@TTN:~/gitrepos/Practice$ cd ..
ttn@TTN:~/gitrepos$ cd ..
ttn@TTN:~$ cd v
v/ vidhi/
ttn@TTN:~$ cd vidhi/
ttn@TTN:~/vidhi$ ls
v1 v2
ttn@TTN:~/vidhi$ git pull
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 4 (delta 0), reused 4 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), done.
From github.com:vidhim09/Practice
b7204fe..3bf7364 master -> origin/master
Updating b7204fe..3bf7364
Fast-forward
 v2/xyz.txt | 2 ++
1 file changed, 2 insertions(+)
ttn@TTN:~/vidhi$
```

## 11. Check differences between a file and its staged version

Command :

\$ git status

\$ git diff --staged

```
Activities Terminal Tue 17:35 ttn@TTN: ~/vidhi
File Edit View Search Terminal Help
ttn@TTN:~/vidhi$ ls
v1 v2
ttn@TTN:~/vidhi$ cat v1/abc.txt
This is the first line
This is the second line
This is the third line
ttn@TTN:~/vidhi$ cat v2/xyz.txt
hello world
hey world

ttn@TTN:~/vidhi$ vim v2/xyz.txt
ttn@TTN:~/vidhi$ git diff --cached
ttn@TTN:~/vidhi$ git diff --staged
ttn@TTN:~/vidhi$ git status
On branch master
Your branch is up to date with 'origin/master'.

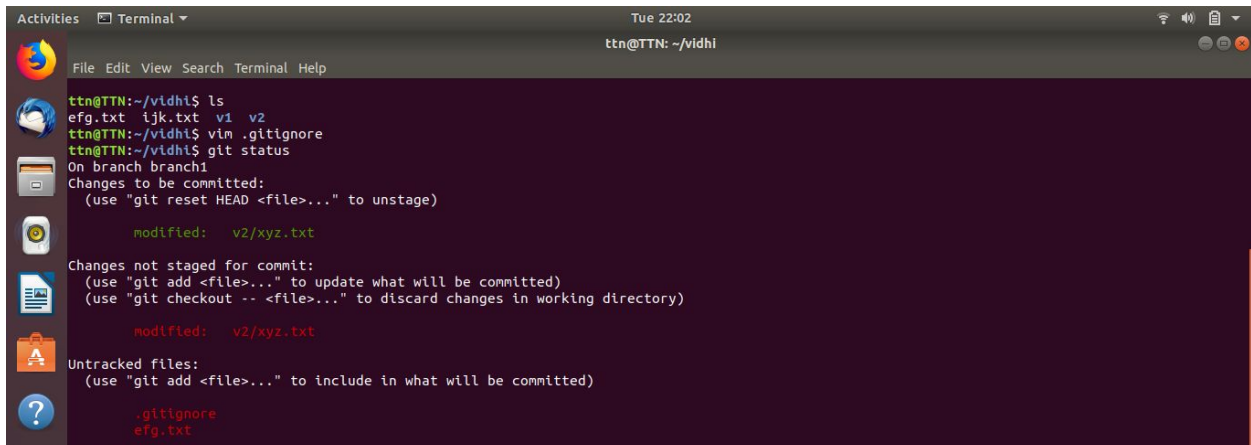
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

modified:   v2/xyz.txt

no changes added to commit (use "git add" and/or "git commit -a")
ttn@TTN:~/vidhi$ git add .
ttn@TTN:~/vidhi$ vim v2/xyz.txt
ttn@TTN:~/vidhi$ git diff --staged
diff --git a/v2/xyz.txt b/v2/xyz.txt
index 5408656..9a71f81 100644
--- a/v2/xyz.txt
+++ b/v2/xyz.txt
@@ -1,3 +1,2 @@
 hello world
-hey world

ttn@TTN:~/vidhi$
```

## 12. Ignore a few files to be checked in

A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 22:02, ttn@TTN: ~/vidhi). The terminal shows the following commands and output:

```
ttn@TTN:~/vidhi$ ls
efg.txt  ijk.txt  v1  v2
ttn@TTN:~/vidhi$ vim .gitignore
ttn@TTN:~/vidhi$ git status
On branch branch1
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   v2/xyz.txt

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   v2/xyz.txt

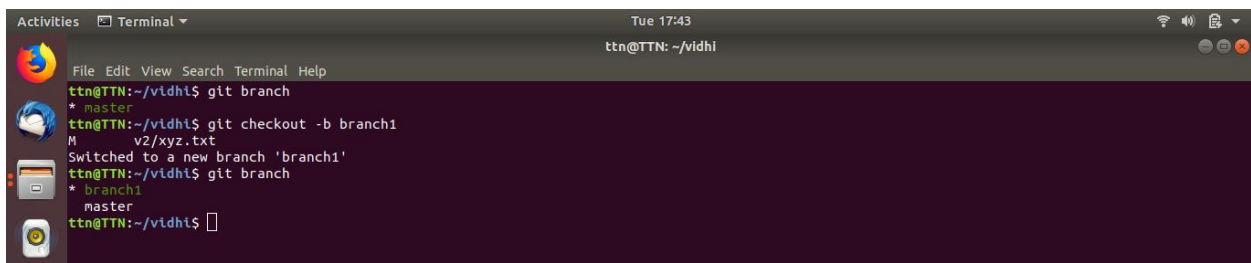
Untracked files:
  (use "git add <file>..." to include in what will be committed)

  .gitignore
  efg.txt
```

## 13. Create a new branch.

Command :

\$ git checkout -b branch1

A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 17:43, ttn@TTN: ~/vidhi). The terminal shows the following commands and output:

```
ttn@TTN:~/vidhi$ git branch
* master
ttn@TTN:~/vidhi$ git checkout -b branch1
M   v2/xyz.txt
Switched to a new branch 'branch1'
ttn@TTN:~/vidhi$ git branch
* branch1
  master
ttn@TTN:~/vidhi$
```

## 14. Diverge them with commits

```
Activities Terminal Tue 22:24 ttn@TTN: ~/vidhi
File Edit View Search Terminal Help

ttn@TTN:~/vidhi$ git branch
branch1
* master

ttn@TTN:~/vidhi$ ls
efg.txt ijk.txt v1 v2
ttn@TTN:~/vidhi$ git checkout branch1
M
v2/xyz.txt
Switched to branch 'branch1'
ttn@TTN:~/vidhi$ git add .
ttn@TTN:~/vidhi$ git status
On branch branch1
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   .gitignore
    new file:   efg.txt
    modified:   v2/xyz.txt

ttn@TTN:~/vidhi$ git commit -m "branch commit"
[branch1 8c63a34] branch commit
3 files changed, 3 insertions(+)
create mode 100644 .gitignore
create mode 100644 efg.txt

ttn@TTN:~/vidhi$ git push origin branch1
Counting objects: 6, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (6/6), 435 bytes | 435.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'branch1' on GitHub by visiting:
remote:   https://github.com/vidhim09/Practice/pull/new/branch1
remote:
To github.com:vidhim09/Practice.git
 * [new branch]   branch1 -> branch1
ttn@TTN:~/vidhi$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
```

```
Activities Terminal Tue 22:24 ttn@TTN: ~/vidhi
File Edit View Search Terminal Help

ttn@TTN:~/vidhi$ git commit -m "branch commit"
[branch1 8c63a34] branch commit
3 files changed, 3 insertions(+)
create mode 100644 .gitignore
create mode 100644 efg.txt

ttn@TTN:~/vidhi$ git push origin branch1
Counting objects: 6, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (6/6), 435 bytes | 435.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'branch1' on GitHub by visiting:
remote:   https://github.com/vidhim09/Practice/pull/new/branch1
remote:
To github.com:vidhim09/Practice.git
 * [new branch]   branch1 -> branch1
ttn@TTN:~/vidhi$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
ttn@TTN:~/vidhi$ git rebase master
Current branch master is up to date.
ttn@TTN:~/vidhi$ git commit -m "branch commit"
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  ijk.txt

nothing added to commit but untracked files present
ttn@TTN:~/vidhi$ git rebase -i
Successfully rebased and updated refs/heads/master.
ttn@TTN:~/vidhi$ git log --graph --oneline --all
* 8c63a34 (origin/branch1, branch1) branch commit
* 3bf7364 (HEAD -> master, origin/master) Edit by other
* b7204fe second commit
* 367cb2c First Commit
ttn@TTN:~/vidhi$
```



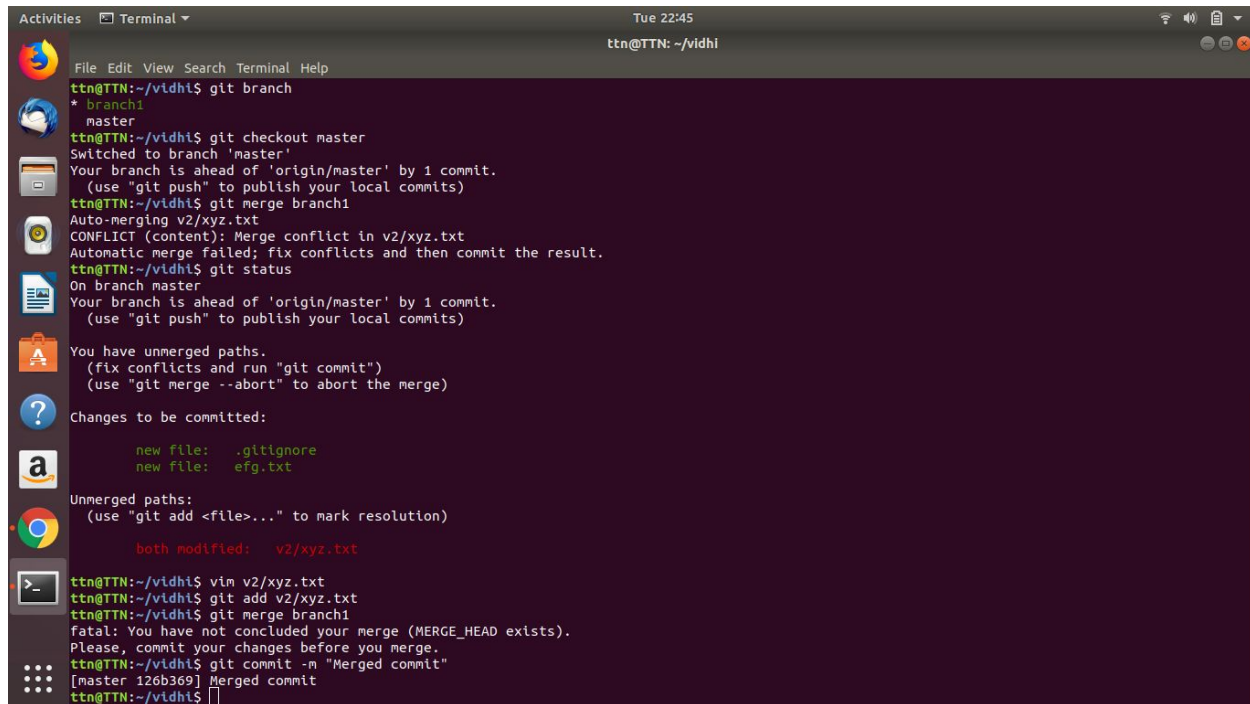
## 15. Edit the same file at the same line on both branches and commit

```
Activities Terminal Tue 22:34 ttn@TTN: ~/vidhi
File Edit View Search Terminal Help
ttn@TTN:~/vidhi$ vim v2/xyz.txt
ttn@TTN:~/vidhi$ git diff master..branch1
diff --git a/.gitignore b/.gitignore
new file mode 100644
index 0000000..3687c87
--- /dev/null
+++ b/.gitignore
@@ -0,0 +1,2 @@
+# ignore ijk.txt
+ijk.txt
diff --git a/efg.txt b/efg.txt
new file mode 100644
index 0000000..e69de29
diff --git a/v2/xyz.txt b/v2/xyz.txt
index 5408656..5b10728 100644
--- a/v2/xyz.txt
+++ b/v2/xyz.txt
@@ -1,3 +1,4 @@
hello world
hey world
ttn@TTN:~/vidhi$ git add .
ttn@TTN:~/vidhi$ git commit -m "Master commit"
[master 0ba3c9f] Master commit
2 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 ijk.txt
ttn@TTN:~/vidhi$ git checkout branch1
Switched to branch 'branch1'
ttn@TTN:~/vidhi$ vim v2/xyz.txt
ttn@TTN:~/vidhi$ cat v2/xyz.txt
hello world
hey world
how are you?
ttn@TTN:~/vidhi$ git add .
ttn@TTN:~/vidhi$ git commit -m "Branch commit"
[branch1 53872e4] Branch commit
```

```
Activities Terminal Tue 22:37 ttn@TTN: ~/vidhi
File Edit View Search Terminal Help
ttn@TTN:~/vidhi$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)
ttn@TTN:~/vidhi$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
ttn@TTN:~/vidhi$ cat v2/xyz.txt
hello world
hey world
hello
ttn@TTN:~/vidhi$ git checkout branch1
Switched to branch 'branch1'
ttn@TTN:~/vidhi$ git status
On branch branch1
nothing to commit, working tree clean
ttn@TTN:~/vidhi$ cat v2/xyz.txt
hello world
hey world
how are you?
```

## 16. Try merging and resolve merge conflicts



A terminal window titled "Terminal" showing a series of Git commands and their outputs. The user is in a directory ~/vidhi. They create a new branch named 'branch1' from 'master'. They then checkout 'master'. They attempt to merge 'branch1' into 'master', which results in a conflict in 'v2/xyz.txt'. The terminal shows the conflict message and the user's attempt to resolve it by committing the changes. However, they receive an error: "fatal: You have not concluded your merge (MERGE\_HEAD exists). Please, commit your changes before you merge." They then commit the changes with the message "Merged commit". Finally, they attempt to merge 'branch1' again, and the merge is successful, resulting in a new commit on 'master'.

```
ttn@TTN:~/vidhi$ git branch
* branch1
master
ttn@TTN:~/vidhi$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)
ttn@TTN:~/vidhi$ git merge branch1
Auto-merging v2/xyz.txt
CONFLICT (content): Merge conflict in v2/xyz.txt
Automatic merge failed; fix conflicts and then commit the result.
ttn@TTN:~/vidhi$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

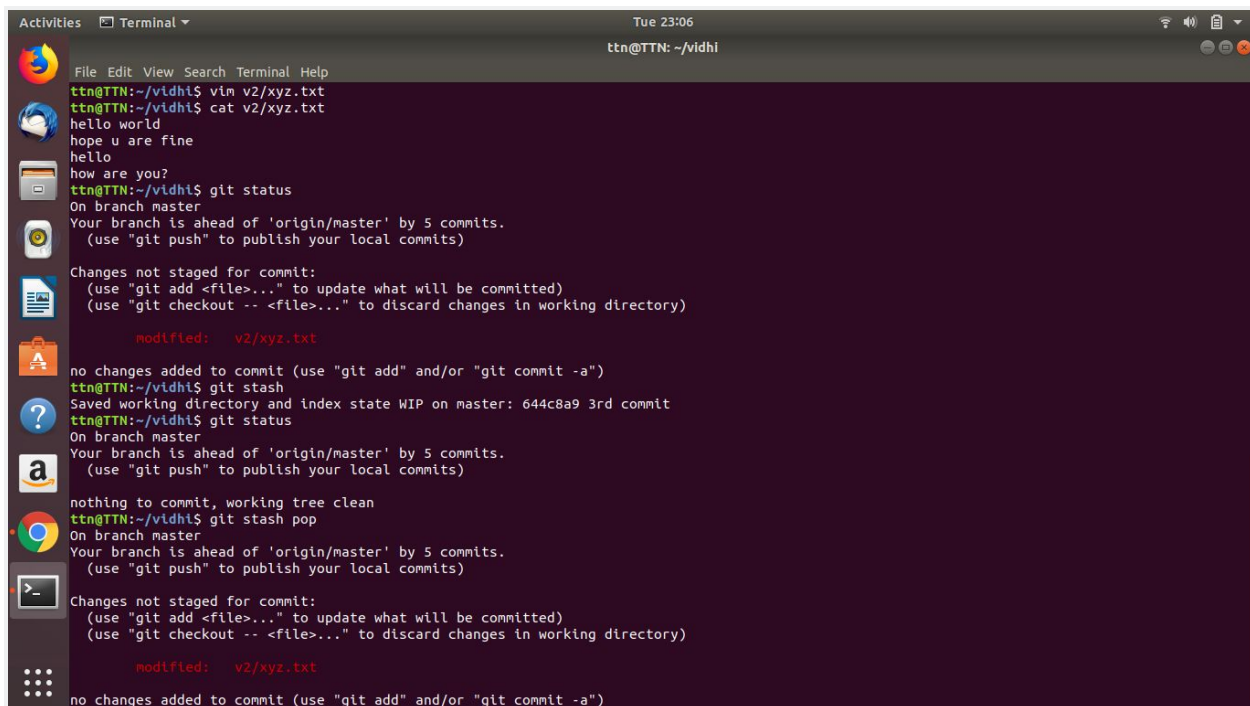
Changes to be committed:
  new file:   .gitignore
  new file:   efg.txt

Unmerged paths:
  (use "git add <file>..." to mark resolution)

    both modified: v2/xyz.txt

ttn@TTN:~/vidhi$ vim v2/xyz.txt
ttn@TTN:~/vidhi$ git add v2/xyz.txt
ttn@TTN:~/vidhi$ git merge branch1
fatal: You have not concluded your merge (MERGE_HEAD exists).
Please, commit your changes before you merge.
ttn@TTN:~/vidhi$ git commit -m "Merged commit"
[master 126b369] Merged commit
ttn@TTN:~/vidhi$
```

## 17. Stash the changes and pop them



A terminal window titled "Terminal" showing a series of Git commands and their outputs. The user is in a directory ~/vidhi. They edit 'v2/xyz.txt' using vim, adding the text "hello world", "hope u are fine", "hello", and "how are you?". They then run 'git status', which shows the changes as "modified: v2/xyz.txt". They attempt to commit the changes but receive an error: "no changes added to commit (use 'git add' and/or 'git commit -a')". They then run 'git stash', which saves the changes to the stash. They run 'git status' again, which shows "nothing to commit, working tree clean". They then run 'git stash pop', which restores the changes from the stash. Finally, they run 'git status' again, which shows the changes as "modified: v2/xyz.txt". They attempt to commit the changes but receive the same error as before: "no changes added to commit (use 'git add' and/or 'git commit -a')".

```
ttn@TTN:~/vidhi$ vim v2/xyz.txt
ttn@TTN:~/vidhi$ cat v2/xyz.txt
hello world
hope u are fine
hello
how are you?
ttn@TTN:~/vidhi$ git status
On branch master
Your branch is ahead of 'origin/master' by 5 commits.
(use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   v2/xyz.txt

no changes added to commit (use "git add" and/or "git commit -a")
ttn@TTN:~/vidhi$ git stash
Saved working directory and index state WIP on master: 644c8a9 3rd commit
ttn@TTN:~/vidhi$ git status
On branch master
Your branch is ahead of 'origin/master' by 5 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
ttn@TTN:~/vidhi$ git stash pop
On branch master
Your branch is ahead of 'origin/master' by 5 commits.
(use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   v2/xyz.txt

no changes added to commit (use "git add" and/or "git commit -a")
```

18. Add the following code to your .bashrc file : color\_prompt="yes"

```
parse_git_branch() {  
git branch 2> /dev/null | sed -e '/^[^*]/d' -e 's/* \(.*)/(\\1)/'  
}  
if [ "$color_prompt" = yes ]; then  
PS1='\u@\h\[\033[00m\]:\[\033[01;34m\]\W\[\033[01;31m\  
$(parse_git_branch)\[\033[00m\]\$ '  
else  
PS1='\u@\h:\W $(parse_git_branch)\$ '  
fi  
unset color_prompt force_color_prompt
```



The screenshot shows a terminal window titled "Terminal" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 23:23, ttn@TTN: ~/vidhi). The terminal content shows the following commands and output:

```
ttn@TTN:~$ cd vidhi/  
ttn@TTN:~/vidhi$ git branch  
branch1  
* master  
ttn@TTN:~/vidhi$ clear  
ttn@TTN:~/vidhi$ color_prompt="yes"  
ttn@TTN:~/vidhi$ parse_git_branch() {  
> git branch 2> /dev/null | sed -e '/^[^*]/d' -e 's/* \(.*)/(\\1)/'  
> }  
ttn@TTN:~/vidhi$ if [ "$color_prompt" = yes ]; then  
> PS1='\u@\h\[\033[00m\]:\[\033[01;34m\]\W\[\033[01;31m\  
> $(parse_git_branch)\[\033[00m\]\$ '  
> else  
> PS1='\u@\h:\W $(parse_git_branch)\$ '  
> fi  
ttn@TTN:vidhi (master)$ unset color_prompt force_color_prompt  
ttn@TTN:vidhi (master)$  
ttn@TTN:vidhi (master)$
```