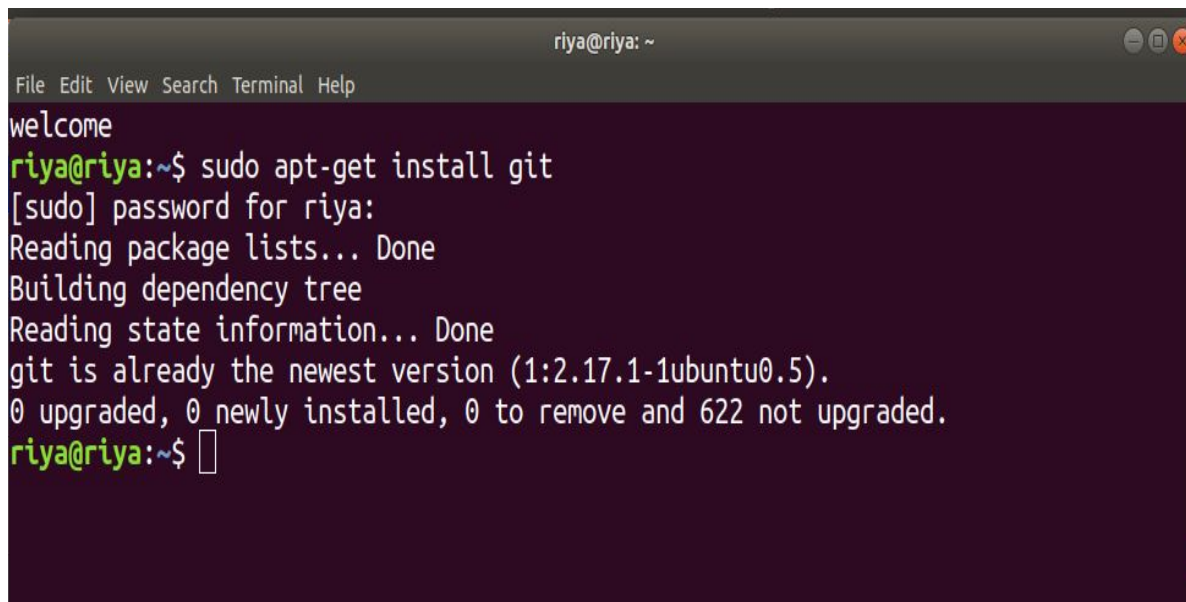


SESSION-2

VERSION CONTROL ASSIGNMENT

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

A terminal window titled 'riya@riya: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal output shows a 'welcome' message, followed by the command 'sudo apt-get install git'. It prompts for a password, then shows the package list being read, the dependency tree being built, and state information being read. It confirms that git is already the newest version (1:2.17.1-1ubuntu0.5) and that no packages need to be upgraded, installed, or removed, with 622 packages not needing an upgrade. The prompt returns to 'riya@riya:~\$' with a cursor.

```
riya@riya: ~
File Edit View Search Terminal Help
welcome
riya@riya:~$ sudo apt-get install git
[sudo] password for riya:
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version (1:2.17.1-1ubuntu0.5).
0 upgraded, 0 newly installed, 0 to remove and 622 not upgraded.
riya@riya:~$
```

```
root@riya:~# sudo apt-get install git
```

```
riya@riya:~$ sudo apt-get update
```

2.Initialize a Git Repository

```
riya@riya:~$ mkdir tempgit1
riya@riya:~$ cd tempgit1
riya@riya:~/tempgit1$ git init
Initialized empty Git repository in /home/riya/tempgit1/.git/
riya@riya:~/tempgit1$
```

```
riya@riya:~$ mkdir tempgit1
riya@riya:~$ cd tempgit1
riya@riya:~/tempgit1$ git init
Initialized empty Git repository in /home/riya/tempgit1/.git/
```

3.Add files to the repository

```
riya@riya:~/tempgit1$ touch file1.txt
riya@riya:~/tempgit1$ git status
On branch master
```

No commits yet

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

file1.txt

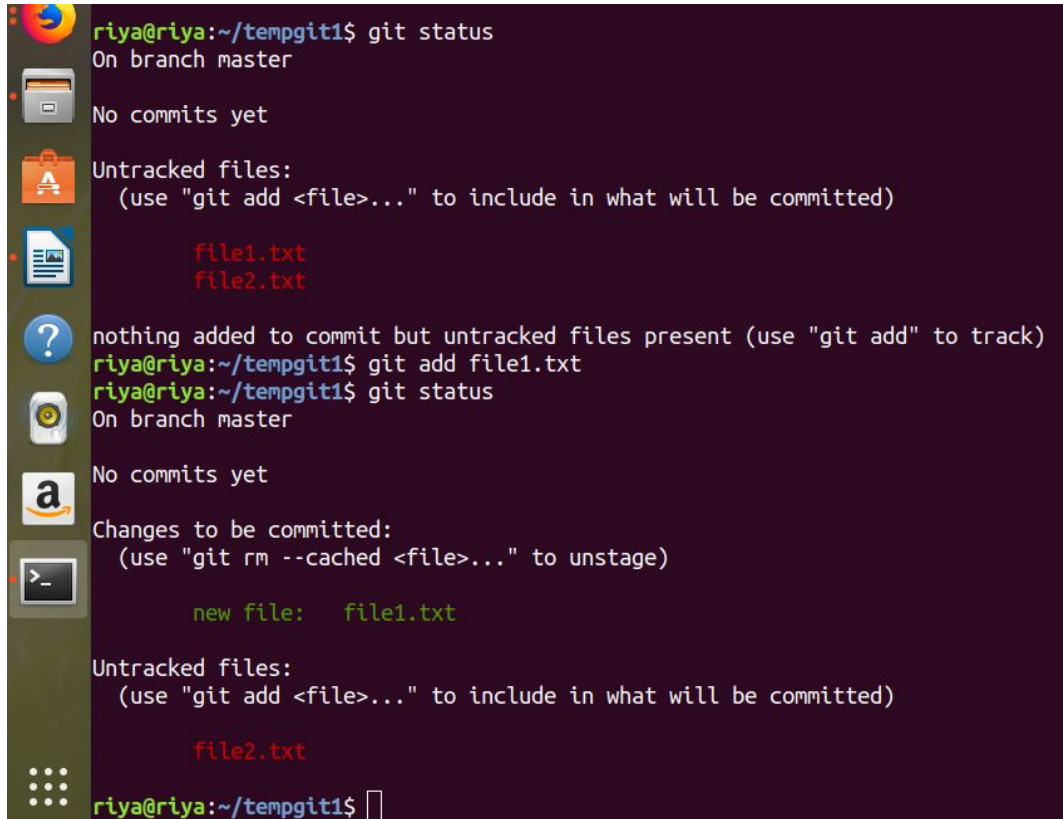
nothing added to commit but untracked files present (use "git add" to track)

```
riya@riya:~/tempgit1$ git add file1.txt
riya@riya:~/tempgit1$ git status
On branch master
```

No commits yet

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

new file: file1.txt

A terminal window with a dark background and light-colored text. The terminal shows the output of several git commands. The first part shows 'git status' output: 'On branch master', 'No commits yet', 'Untracked files: (use "git add <file>..." to include in what will be committed)', 'file1.txt', 'file2.txt', and 'nothing added to commit but untracked files present (use "git add" to track)'. The second part shows 'git add file1.txt' followed by another 'git status' output: 'On branch master', 'No commits yet', 'Changes to be committed: (use "git rm --cached <file>..." to unstage)', 'new file: file1.txt', 'Untracked files: (use "git add <file>..." to include in what will be committed)', 'file2.txt', and the prompt 'riya@riya:~/tempgit1\$'.

```
riya@riya:~/tempgit1$ git status
On branch master

No commits yet

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

        file1.txt
        file2.txt

nothing added to commit but untracked files present (use "git add" to track)
riya@riya:~/tempgit1$ git add file1.txt
riya@riya:~/tempgit1$ git status
On branch master

No commits yet

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

        new file:   file1.txt

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

        file2.txt

riya@riya:~/tempgit1$
```

4.Unstage 1 file

```
riya@riya:~/tempgit1$ touch file2.txt
riya@riya:~/tempgit1$ git add file2.txt
riya@riya:~/tempgit1$ git status
On branch master
```

No commits yet

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

```
new file:   file1.txt
new file:   file2.txt
```

```
riya@riya:~/tempgit1$ git reset file2.txt
riya@riya:~/tempgit1$ git status
On branch master
```

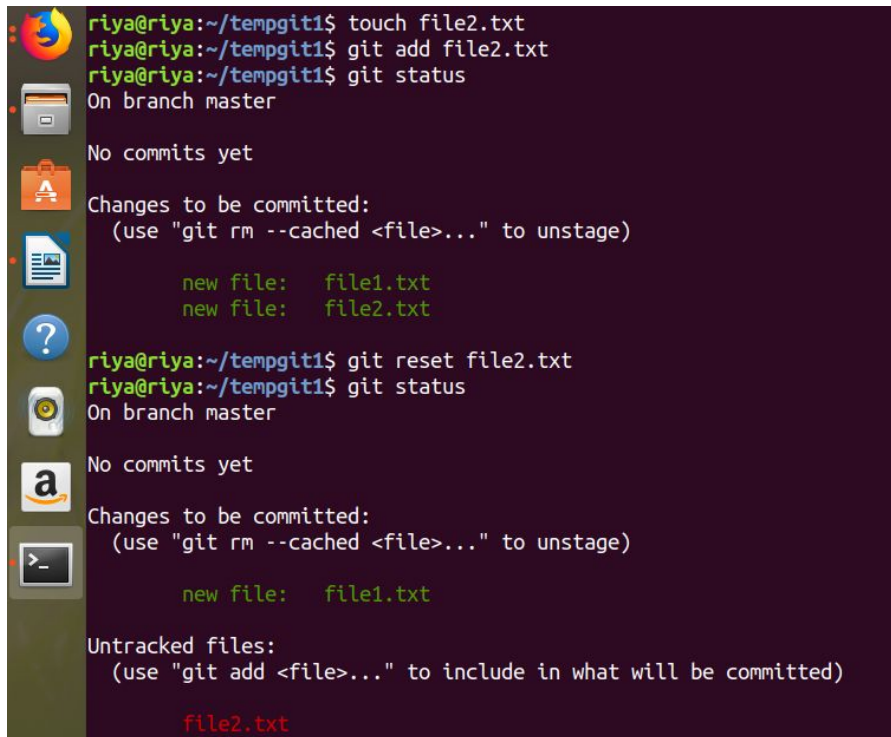
No commits yet

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

```
new file:   file1.txt
```

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

```
file2.txt
```



```
riya@riya:~/tempgit1$ touch file2.txt
riya@riya:~/tempgit1$ git add file2.txt
riya@riya:~/tempgit1$ git status
On branch master

No commits yet

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

        new file:   file1.txt
        new file:   file2.txt

riya@riya:~/tempgit1$ git reset file2.txt
riya@riya:~/tempgit1$ git status
On branch master

No commits yet

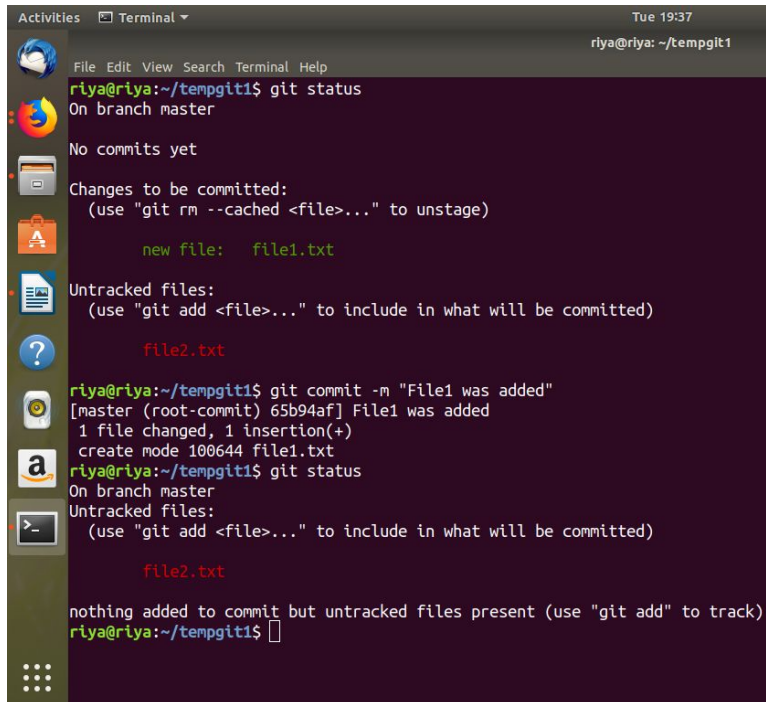
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   file1.txt

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

        file2.txt
```

5.Commit the file

A screenshot of a terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 19:37, riya@riya: ~/tempgit1). The terminal shows the following commands and output:

```
riya@riya:~/tempgit1$ git status
On branch master

No commits yet

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

        new file:   file1.txt

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

        file2.txt

riya@riya:~/tempgit1$ git commit -m "File1 was added"
[master (root-commit) 65b94af] File1 was added
 1 file changed, 1 insertion(+)
 create mode 100644 file1.txt
riya@riya:~/tempgit1$ git status
On branch master

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

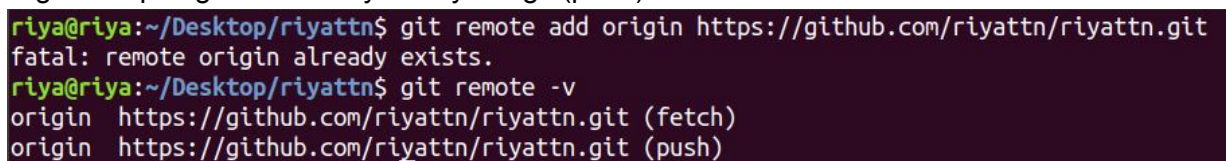
        file2.txt

nothing added to commit but untracked files present (use "git add" to track)
riya@riya:~/tempgit1$
```

```
riya@riya:~/tempgit1$ git commit -m "File1 was added"
[master (root-commit) 65b94af] File1 was added
 1 file changed, 1 insertion(+)
 create mode 100644 file1.txt
```

6.Add a remote

```
riya@riya:~/Desktop/riyattn$ git remote add origin https://github.com/riyattn/riyattn.git
riya@riya:~/Desktop/riyattn$ git remote -v
origin    https://github.com/riyattn/riyattn.git (fetch)
origin    https://github.com/riyattn/riyattn.git (push)
```

A screenshot of a terminal window showing the following commands and output:

```
riya@riya:~/Desktop/riyattn$ git remote add origin https://github.com/riyattn/riyattn.git
fatal: remote origin already exists.
riya@riya:~/Desktop/riyattn$ git remote -v
origin    https://github.com/riyattn/riyattn.git (fetch)
origin    https://github.com/riyattn/riyattn.git (push)
```

7.Undo changes to a particular file

```
riya@riya:~/tempgit1$ cat file1.txt //view file1 to see its contents.  
hello. This is a new file.
```

these are new lines added to this file.

```
riya@riya:~/tempgit1$ git status
```

On branch 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: file1.txt//git status shows the modified file

Untracked files:

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

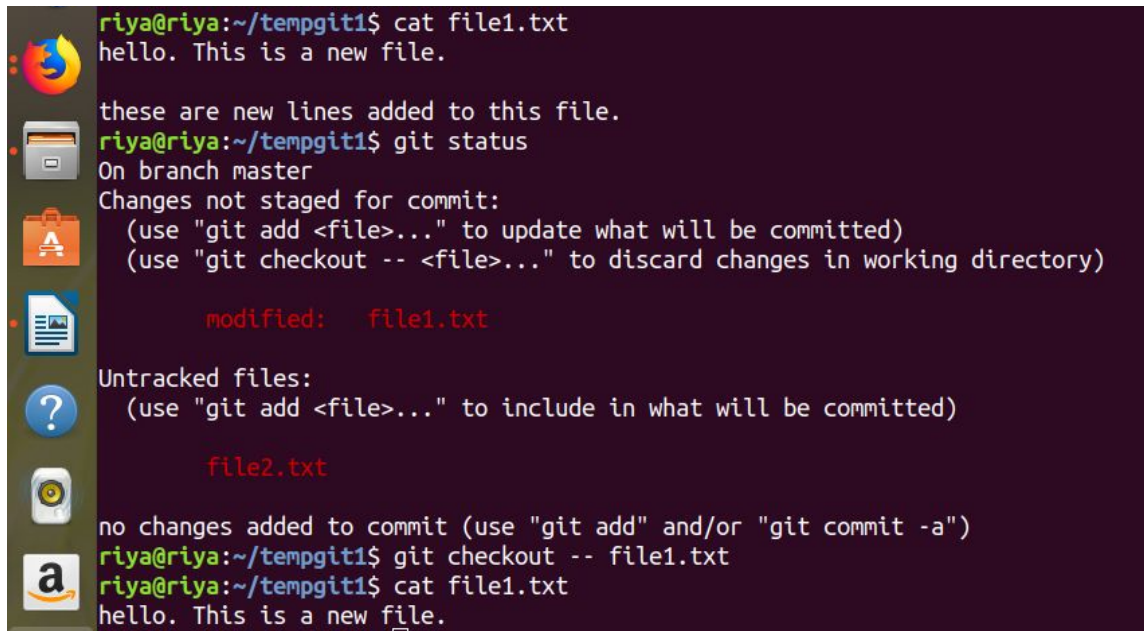
file2.txt

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

```
riya@riya:~/tempgit1$ git checkout -- file1.txt//undo the changes
```

```
riya@riya:~/tempgit1$ cat file1.txt
```

hello. This is a new file.



```
riya@riya:~/tempgit1$ cat file1.txt
hello. This is a new file.

these are new lines added to this file.
riya@riya:~/tempgit1$ git status
On branch 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:   file1.txt

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

        file2.txt

no changes added to commit (use "git add" and/or "git commit -a")
riya@riya:~/tempgit1$ git checkout -- file1.txt
riya@riya:~/tempgit1$ cat file1.txt
hello. This is a new file.
```

8. Push changes to Github

```
riya@riya:~/Desktop/riyattn$ ls      //cd to local repository and list it contents.
README.md                          //edit readme file
riya@riya:~/Desktop/riyattn$ touch new.md //create new file
riya@riya:~/Desktop/riyattn$ ls
new.md README.md
riya@riya:~/Desktop/riyattn$ 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: README.md

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

new.md

no changes added to commit (use "git add" and/or "git commit -a")
riya@riya:~/Desktop/riyattn\$ git add .
riya@riya:~/Desktop/riyattn\$ 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)

modified: README.md
new file: new.md

```
riya@riya:~/Desktop/riyattn$ git commit -m "edit readme and add new.md"
```

```
[master 69e8159] edit readme and add new.md
```

```
2 files changed, 3 insertions(+), 1 deletion(-)
```

```
create mode 100644 new.md
```

```
riya@riya:~/Desktop/riyattn$ 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
```

```
riya@riya:~/Desktop/riyattn$ git push origin master  //////////////////////////////////pushing both files in  
the remote
```

```
repository.
```

```
Username for 'https://github.com': riyattn
```

```
Password for 'https://riyattn@github.com':
```

```
Counting objects: 4, done.
```

```
Delta compression using up to 8 threads.
```

```
Compressing objects: 100% (2/2), done.
```

```
Writing objects: 100% (4/4), 323 bytes | 323.00 KiB/s, done.
```

```
Total 4 (delta 0), reused 0 (delta 0)
```

```
To https://github.com/riyattn/riyattn.git
```

```
7d41a69..69e8159 master -> master
```

```
Activities Terminal Tue 22:09
riya@riya: ~/Desktop/riyattn
File Edit View Search Terminal Help

riya@riya:~/Desktop/riyattn$ ls
README.md
riya@riya:~/Desktop/riyattn$ touch new.md
riya@riya:~/Desktop/riyattn$ ls
new.md README.md
riya@riya:~/Desktop/riyattn$ git stats
git: 'stats' is not a git command. See 'git --help'.

The most similar command is
status
riya@riya:~/Desktop/riyattn$ 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:   README.md

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

        new.md

no changes added to commit (use "git add" and/or "git commit -a")
riya@riya:~/Desktop/riyattn$ git add .
riya@riya:~/Desktop/riyattn$ git status
On branch master
Your branch is up to date with 'origin/master'.
```

```
Activities Terminal Tue 22:10
riya@riya: ~/Desktop/riyatn
File Edit View Search Terminal Help
riya@riya:~/Desktop/riyatn$ 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)

        modified:   README.md
        new file:   new.md

riya@riya:~/Desktop/riyatn$ git commit -m "edit readme and add new.md"
[master 69e8159] edit readme and add new.md
 2 files changed, 3 insertions(+), 1 deletion(-)
 create mode 100644 new.md
riya@riya:~/Desktop/riyatn$ 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
riya@riya:~/Desktop/riyatn$ git push origin master
Username for 'https://github.com': riyattn
Password for 'https://riyattn@github.com':
Counting objects: 4, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 323 bytes | 323.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To https://github.com/riyattn/riyattn.git
   7d41a69..69e8159 master -> master
riya@riya:~/Desktop/riyatn$
```

GitHub, Inc. (US)

https://github.com/riyattn/riyattn

<> Code

Issues 0

Pull requests 0

Actions

Projects 0

Wiki

Security

Insights

Settings

No description, website, or topics provided.

Edit

Manage topics

3 commits

1 branch

0 packages

0 releases

1 contributor

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

riyattn edited from github

Latest commit eef8afa 21 seconds ago

README.md	edit readme and add new.md	32 minutes ago
new.md	edited from github	21 seconds ago

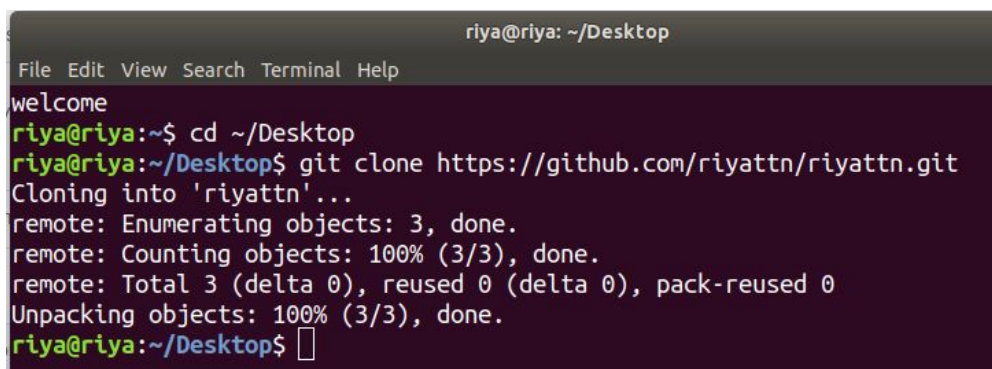
README.md

riyattn

this is my change in this file.

9.clone the repository

```
riya@riya:~$ cd ~/Desktop
riya@riya:~/Desktop$ git clone https://github.com/riyattn/riyattn.git
Cloning into 'riyattn'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
```

A screenshot of a terminal window with a dark background. The title bar at the top reads "riya@riya: ~/Desktop". Below the title bar is a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal output shows a "welcome" message, followed by the user navigating to the desktop and cloning a repository from GitHub. The cloning process is shown in progress with status messages from the remote server, and finally completes with a prompt for the next command.

```
riya@riya: ~/Desktop
File Edit View Search Terminal Help
welcome
riya@riya:~$ cd ~/Desktop
riya@riya:~/Desktop$ git clone https://github.com/riyattn/riyattn.git
Cloning into 'riyattn'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
riya@riya:~/Desktop$
```

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

```
riya@riya:~/Desktop/riyattn$ 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)

modified: new.md

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: new.md

```
riya@riya:~/Desktop/riyattn$ git add new.md
riya@riya:~/Desktop/riyattn$ 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)

modified: new.md

```

riya@riya:~/Desktop/riyattn$ 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)

        modified:   new.md

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:   new.md

riya@riya:~/Desktop/riyattn$ git add new.md
riya@riya:~/Desktop/riyattn$ 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)

        modified:   new.md

```

riyattn / riyattn Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Actions Projects 0 Wiki Security Insights Settings

Branch: master riyattn / new.md Find file Copy path

riyattn edited from github e0f8af8 3 minutes ago

1 contributor

1 lines (1 sloc) | 38 Bytes Raw Blame History

this is the edit from github editor.

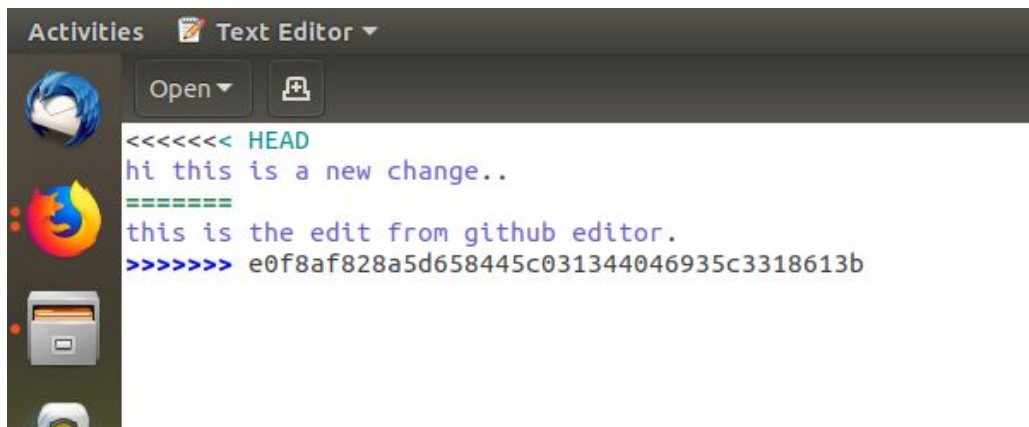
```

riya@riya:~/Desktop/riyattn1$ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/riyattn/riyattn1
   95208bd..b47cb79  master    -> origin/master
Updating 95208bd..b47cb79
Fast-forward
 README.md | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)
riya@riya:~/Desktop/riyattn1$

```

riya@riya:~/Desktop/riyattn1\$ git pull

remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/riyattn/riyattn1
95208bd..b47cb79 master -> origin/master
Updating 95208bd..b47cb79
Fast-forward
 README.md | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)



The screenshot shows a Linux desktop with a dark theme. The top bar has 'Activities' and 'Text Editor' menus. On the left is a dock with icons for a web browser, a text editor, a file manager, and a terminal. The text editor window is open and displays the output of a git commit command. The text is color-coded: green for 'HEAD', blue for the commit message, and purple for the commit hash.

```
<<<<<<< HEAD
hi this is a new change..
=====
this is the edit from github editor.
>>>>>> e0f8af828a5d658445c031344046935c3318613b
```

11. Check differences between a file and its staged version

```
riya@riya:~/Desktop/riyattn1$ git status
On branch master
Your branch is up to date with 'origin/master'.
```

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

```
new.md
```

nothing added to commit but untracked files present (use "git add" to track)

```
riya@riya:~/Desktop/riyattn1$ git add new.md
riya@riya:~/Desktop/riyattn1$ 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: new.md
```

```
riya@riya:~/Desktop/riyattn1$ git diff --cached
diff --git a/new.md b/new.md
```



```
new file mode 100644
index 0000000..ce01362
--- /dev/null
+++ b/new.md
@@ -0,0 +1 @@
+hello
```

```
riya@riya:~/Desktop/riyattn1$ git status
On branch master
Your branch is up to date with 'origin/master'.

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

    new.md

nothing added to commit but untracked files present (use "git add" to track)
riya@riya:~/Desktop/riyattn1$ git add new.md
riya@riya:~/Desktop/riyattn1$ 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)

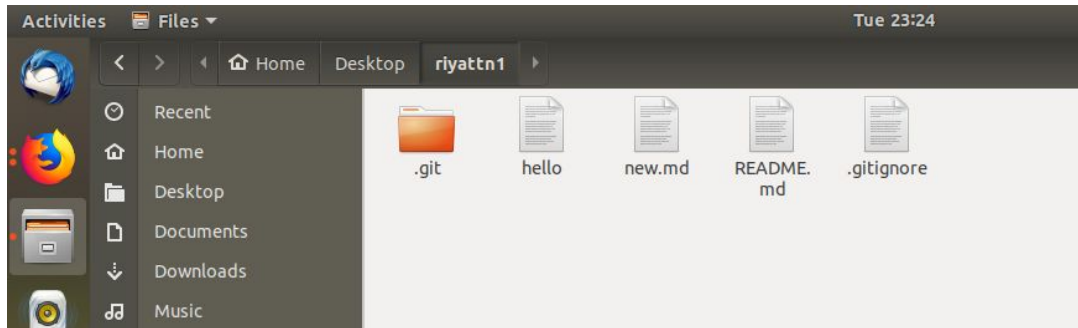
    new file:   new.md

riya@riya:~/Desktop/riyattn1$ git diff --cached
diff --git a/new.md b/new.md
new file mode 100644
index 0000000..ce01362
--- /dev/null
+++ b/new.md
@@ -0,0 +1 @@
+hello
```

12.Ignore a few files to be checked in

```
riya@riya:~/Desktop/riyattn1$ touch .gitignore
```

```
riya@riya:~/Desktop/riyattn1$ touch hello
```

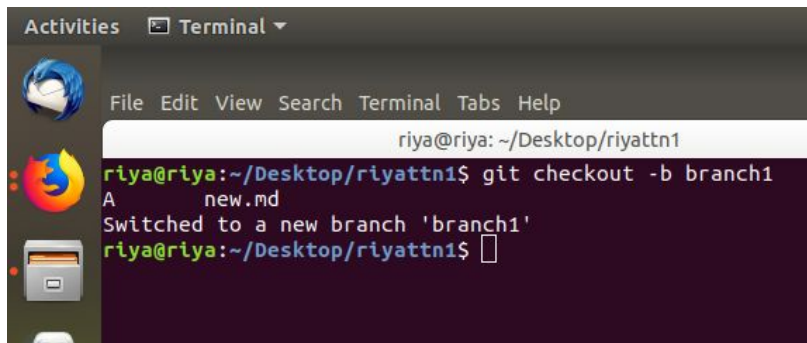


13.Create a new branch.

```
riya@riya:~/Desktop/riyattn1$ git checkout -b branch1
```

```
A new.md
```

```
Switched to a new branch 'branch1'
```



14.Diverge them with commits

Git checkout branch1

////edit the file new.md

Git add new.md

Git commit -m "edited file"

Git checkout master

/////edit the file new.md

Git add new.md

Git commit -m "edited file"

```
riya@riya:~/Desktop/riyattn1$ git checkout -b branch1
```

```
A   new.md
```

```
Switched to a new branch 'branch1'
```

```
riya@riya:~/Desktop/riyattn1$ git status
```

```
On branch branch1
```

```
Changes to be committed:
```

```
(use "git reset HEAD <file>..." to unstage)
```

```
    new file:   new.md
```

```
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:   new.md
```

```
Untracked files:
```

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

```
    .gitignore
```

```
riya@riya:~/Desktop/riyattn1$ git commit -m "edit in line2"
```

```
[branch1 e786fa9] edit in line2
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 new.md
```

```
riya@riya:~/Desktop/riyattn1$ git commit -m "edit in line2"
```

```
On branch branch1
```

```
Changes not staged for commit:
```

```
    modified:   new.md
```

```
Untracked files:
```

```
    .gitignore
```

```
no changes added to commit
```

```
riya@riya:~/Desktop/riyattn1$ git commit -m "edit in line2 2 dots"
```

On branch branch1

Changes not staged for commit:

modified: new.md

Untracked files:

.gitignore

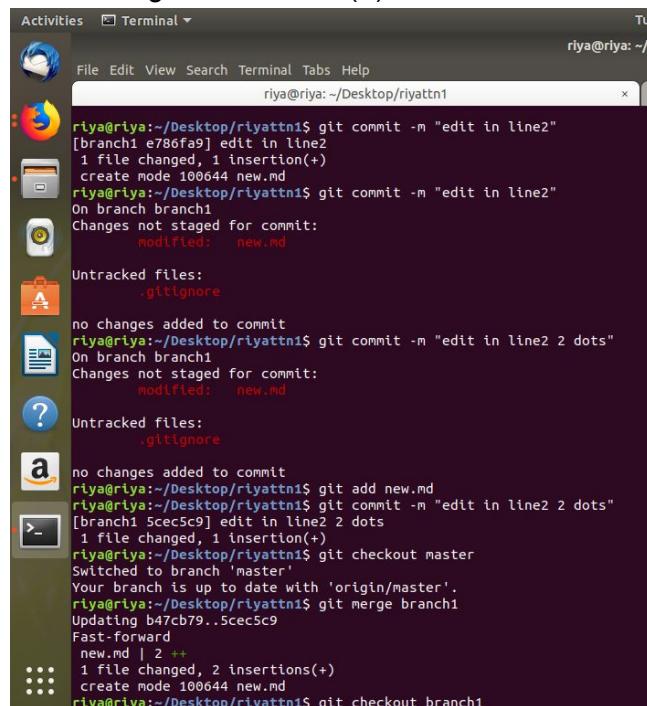
no changes added to commit

```
riya@riya:~/Desktop/riyattn1$ git add new.md
```

```
riya@riya:~/Desktop/riyattn1$ git commit -m "edit in line2 2 dots"
```

[branch1 5cec5c9] edit in line2 2 dots

1 file changed, 1 insertion(+)



```
riya@riya:~/Desktop/riyattn1$ git commit -m "edit in line2"
[branch1 e786fa9] edit in line2
1 file changed, 1 insertion(+)
create mode 100644 new.md
riya@riya:~/Desktop/riyattn1$ git commit -m "edit in line2"
On branch branch1
Changes not staged for commit:
  modified:   new.md

Untracked files:
  .gitignore

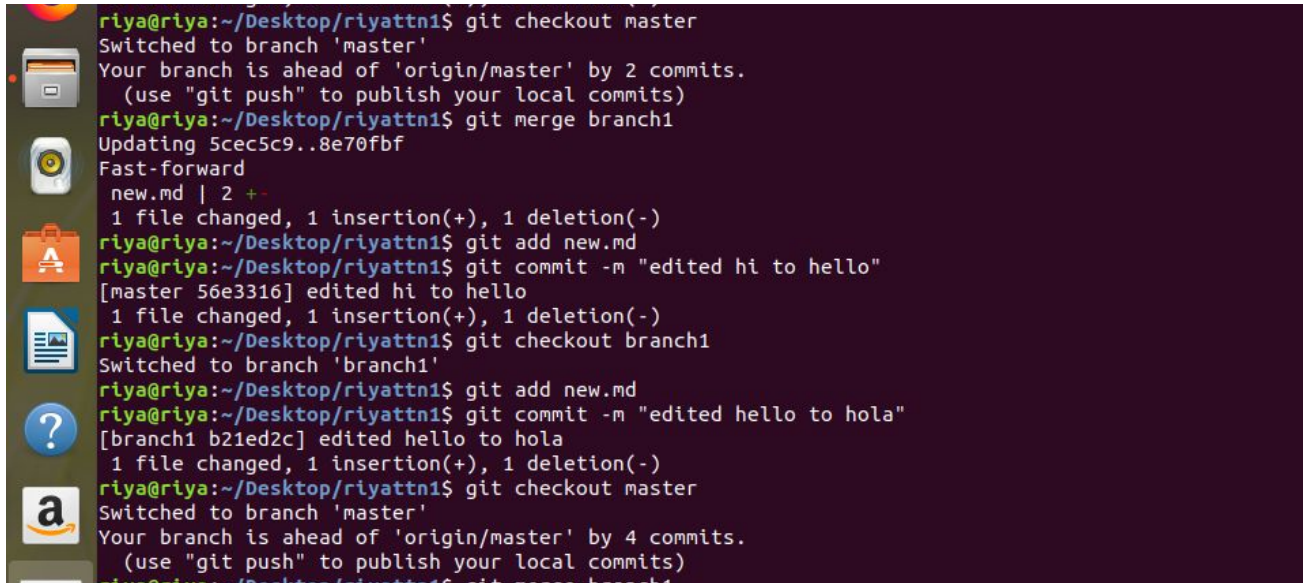
no changes added to commit
riya@riya:~/Desktop/riyattn1$ git commit -m "edit in line2 2 dots"
On branch branch1
Changes not staged for commit:
  modified:   new.md

Untracked files:
  .gitignore

no changes added to commit
riya@riya:~/Desktop/riyattn1$ git add new.md
riya@riya:~/Desktop/riyattn1$ git commit -m "edit in line2 2 dots"
[branch1 5cec5c9] edit in line2 2 dots
1 file changed, 1 insertion(+)
riya@riya:~/Desktop/riyattn1$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
riya@riya:~/Desktop/riyattn1$ git merge branch1
Updating b47cb79..5cec5c9
Fast-forward
 new.md | 2 ++
 1 file changed, 2 insertions(+)
create mode 100644 new.md
riya@riya:~/Desktop/riyattn1$ git checkout branch1
```

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

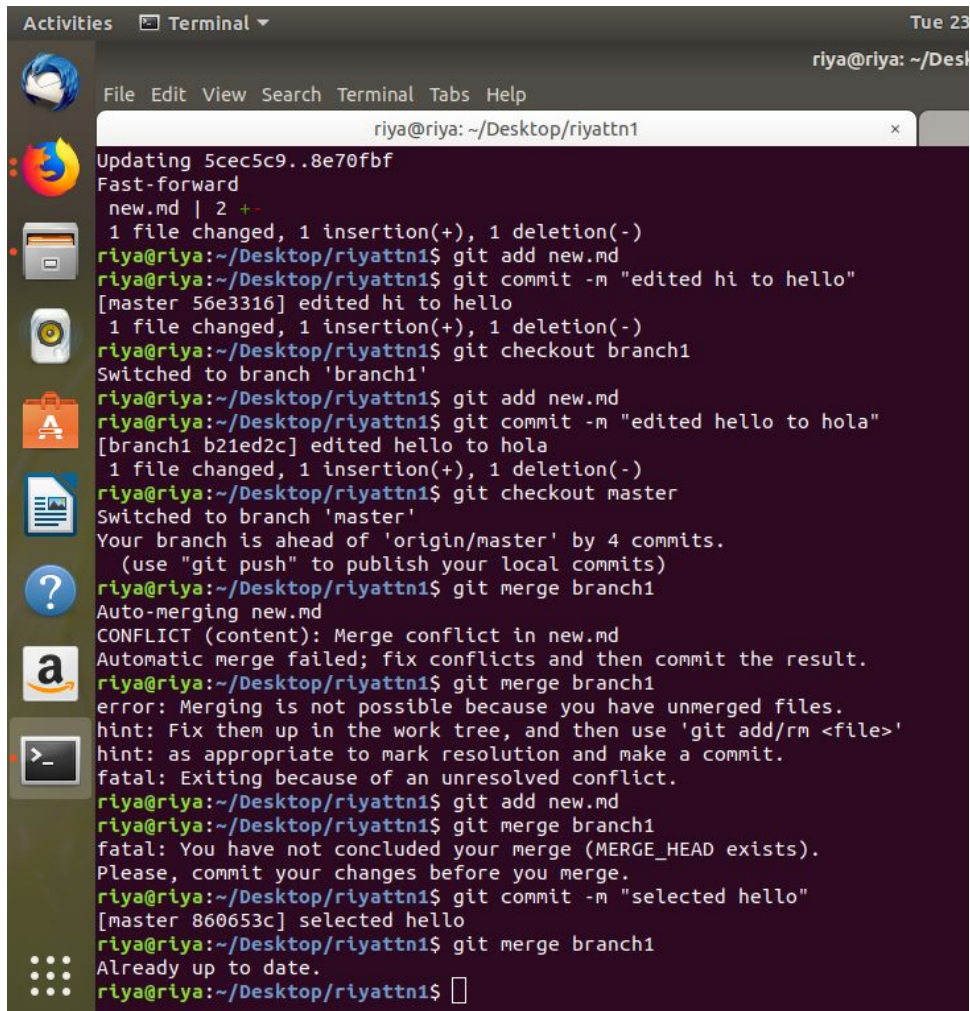
I edited the line 1 for both the file. Hola from branch1 and hello in master.

A terminal window with a dark purple background. On the left side, there is a vertical column of icons: a folder, a hard drive, a lightbulb, a shopping bag, a document with a magnifying glass, a question mark, and an Amazon logo. The terminal text shows a series of Git commands and their outputs. The user starts by checking out the master branch, then merges branch1. They add a new file 'new.md' and commit it with the message 'edited hi to hello'. Then they check out branch1, add 'new.md' again, and commit it with the message 'edited hello to hola'. Finally, they check out master and merge branch1, which results in a fast-forward merge.

```
riya@riya:~/Desktop/riyattn1$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 2 commits.
(use "git push" to publish your local commits)
riya@riya:~/Desktop/riyattn1$ git merge branch1
Updating 5cec5c9..8e70fbf
Fast-forward
 new.md | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
riya@riya:~/Desktop/riyattn1$ git add new.md
riya@riya:~/Desktop/riyattn1$ git commit -m "edited hi to hello"
[master 56e3316] edited hi to hello
 1 file changed, 1 insertion(+), 1 deletion(-)
riya@riya:~/Desktop/riyattn1$ git checkout branch1
Switched to branch 'branch1'
riya@riya:~/Desktop/riyattn1$ git add new.md
riya@riya:~/Desktop/riyattn1$ git commit -m "edited hello to hola"
[branch1 b21ed2c] edited hello to hola
 1 file changed, 1 insertion(+), 1 deletion(-)
riya@riya:~/Desktop/riyattn1$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 4 commits.
(use "git push" to publish your local commits)
riya@riya:~/Desktop/riyattn1$ git merge branch1
```

15.Try merging and resolve merge conflicts

```
riya@riya:~/Desktop/riyattn1$ git merge branch1
Auto-merging new.md
CONFLICT (content): Merge conflict in new.md
Automatic merge failed; fix conflicts and then commit the result.
riya@riya:~/Desktop/riyattn1$ git merge branch1
error: Merging is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
riya@riya:~/Desktop/riyattn1$ git add new.md
riya@riya:~/Desktop/riyattn1$ git merge branch1
fatal: You have not concluded your merge (MERGE_HEAD exists).
Please, commit your changes before you merge.
riya@riya:~/Desktop/riyattn1$ git commit -m "selected hello"
[master 860653c] selected hello
riya@riya:~/Desktop/riyattn1$ git merge branch1
Already up to date.
```



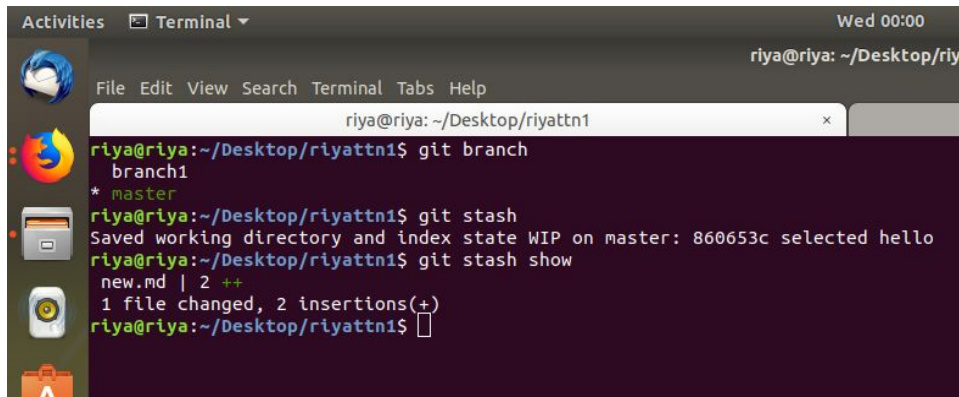
```
Activities  Terminal  Tue 23
riya@riya: ~/Desl

File Edit View Search Terminal Tabs Help

riya@riya: ~/Desktop/riyattn1
Updating 5cec5c9..8e70fbf
Fast-forward
 new.md | 2 ++
 1 file changed, 1 insertion(+), 1 deletion(-)
riya@riya:~/Desktop/riyattn1$ git add new.md
riya@riya:~/Desktop/riyattn1$ git commit -m "edited hi to hello"
[master 56e3316] edited hi to hello
 1 file changed, 1 insertion(+), 1 deletion(-)
riya@riya:~/Desktop/riyattn1$ git checkout branch1
Switched to branch 'branch1'
riya@riya:~/Desktop/riyattn1$ git add new.md
riya@riya:~/Desktop/riyattn1$ git commit -m "edited hello to hola"
[branch1 b21ed2c] edited hello to hola
 1 file changed, 1 insertion(+), 1 deletion(-)
riya@riya:~/Desktop/riyattn1$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 4 commits.
(use "git push" to publish your local commits)
riya@riya:~/Desktop/riyattn1$ git merge branch1
Auto-merging new.md
CONFLICT (content): Merge conflict in new.md
Automatic merge failed; fix conflicts and then commit the result.
riya@riya:~/Desktop/riyattn1$ git merge branch1
error: Merging is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
riya@riya:~/Desktop/riyattn1$ git add new.md
riya@riya:~/Desktop/riyattn1$ git merge branch1
fatal: You have not concluded your merge (MERGE_HEAD exists).
Please, commit your changes before you merge.
riya@riya:~/Desktop/riyattn1$ git commit -m "selected hello"
[master 860653c] selected hello
riya@riya:~/Desktop/riyattn1$ git merge branch1
Already up to date.
riya@riya:~/Desktop/riyattn1$
```

16.Stash the changes and pop them

```
riya@riya:~/Desktop/riyattn1$ git stash
Saved working directory and index state WIP on master: 860653c selected hello
riya@riya:~/Desktop/riyattn1$ git stash show
new.md | 2 ++
1 file changed, 2 insertions(+)
```


A screenshot of a Linux terminal window. The window has a title bar with 'Activities', 'Terminal', and a close button. The top right corner shows 'Wed 00:00'. The terminal shows the following commands and output:

```
riya@riya: ~/Desktop/riyattn1
riya@riya:~/Desktop/riyattn1$ git branch
branch1
* master
riya@riya:~/Desktop/riyattn1$ git stash
Saved working directory and index state WIP on master: 860653c selected hello
riya@riya:~/Desktop/riyattn1$ git stash show
new.md | 2 ++
1 file changed, 2 insertions(+)
riya@riya:~/Desktop/riyattn1$
```

```
riya@riya:~/Desktop/riyattn1$ git stash pop
```

On branch master

Your branch is ahead of 'origin/master' by 6 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: new.md

Untracked files:

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

.gitignore

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

Dropped refs/stash@{0} (0458dafd33bbf043db8cae09500d2f796b1c4adb)

```
riya@riya:~/Desktop/riyattn1$ git status
```

On branch master

Your branch is ahead of 'origin/master' by 6 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: new.md

Untracked files:

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

.gitignore

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

```

riya@riya:~/Desktop/riyattn1$ git stash pop
On branch master
Your branch is ahead of 'origin/master' by 6 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:   new.md

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

        .gitignore

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (0458dafd33bbf043db8cae09500d2f796b1c4adb)
riya@riya:~/Desktop/riyattn1$ git status
On branch master
Your branch is ahead of 'origin/master' by 6 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:   new.md

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

        .gitignore

no changes added to commit (use "git add" and/or "git commit -a")
riya@riya:~/Desktop/riyattn1$ 

```

17. 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

```



```
GNU nano 2.9.3      riya@riya: ~      riya@riya: ~/Desktop/riyattn1
.bashrc

. /usr/share/bash-completion/bash_completion
elif [ -f /etc/bash_completion ]; then
. /etc/bash_completion
fi

clear
echo 'welcome Riya'

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


```

