

Version Control Exercise

1. Git Setup

```
ttn@ttn:~$ sudo apt install git
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  git-man liberror-perl
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk
  gitweb git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  git git-man liberror-perl
0 upgraded, 3 newly installed, 0 to remove and 3 not upgraded.
Need to get 4,741 kB of archives.
After this operation, 34.0 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 liberror-perl all 0.
17025-1 [22.8 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu bionic-updates/main amd64 git-man all
1:2.17.1-1ubuntu0.7 [804 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu bionic-updates/main amd64 git amd64 1:
2.17.1-1ubuntu0.7 [3,915 kB]
Fetched 4,741 kB in 1s (5,074 kB/s)
Selecting previously unselected package liberror-perl.
(Reading database ... 168400 files and directories currently installed.)
ttn@ttn:~$ git --version
git version 2.17.1
ttn@ttn:~$ git config --global user.name "Naveen Garg"
ttn@ttn:~$ git config --global user.email "naveen.garg@tothenew.com"
ttn@ttn:~$ git config --global user.name
Naveen Garg
ttn@ttn:~$ git config --global user.email
naveen.garg@tothenew.com
ttn@ttn:~$
```

2. Initialize a Git Repository

```

ttn@ttn:~$ cd temp_git/
ttn@ttn:~/temp_git$ ls
ttn@ttn:~/temp_git$ touch index.html
ttn@ttn:~/temp_git$ touch style.css
ttn@ttn:~/temp_git$ touch first.html
ttn@ttn:~/temp_git$ ls
first.html index.html style.css
ttn@ttn:~/temp_git$ git init
Initialized empty Git repository in /home/ttn/temp_git/.git/
ttn@ttn:~/temp_git$ ls -al
total 12
drwxr-xr-x  3 ttn ttn 4096 Feb  3 13:26 .
drwxr-xr-x 22 ttn ttn 4096 Feb  3 13:24 ..
-rw-r--r--  1 ttn ttn   0 Feb  3 13:25 first.html
drwxr-xr-x  7 ttn ttn 4096 Feb  3 13:26 .git
-rw-r--r--  1 ttn ttn   0 Feb  3 13:24 index.html
-rw-r--r--  1 ttn ttn   0 Feb  3 13:25 style.css
ttn@ttn:~/temp_git$

```

3. Add files to the repository

```

ttn@ttn:~/temp_git$ git status
On branch master

No commits yet

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

        first.html
        index.html
        style.css

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

No commits yet

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

        new file:   first.html
        new file:   index.html
        new file:   style.css

ttn@ttn:~/temp_git$

```

4. Unstage 1 file

```
ttn@ttn:~/temp_git$ git status
On branch master

No commits yet

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

        new file:   first.html
        new file:   index.html
        new file:   style.css

ttn@ttn:~/temp_git$ git rm --cached first.html
rm 'first.html'
ttn@ttn:~/temp_git$ git status
On branch master

No commits yet

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

        new file:   index.html
        new file:   style.css

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

        first.html

ttn@ttn:~/temp_git$
```

5. Commit the file

```

ttn@ttn:~/temp_git$ git add .
ttn@ttn:~/temp_git$ git status
On branch master

No commits yet

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

        new file:   first.html
        new file:   index.html
        new file:   style.css

ttn@ttn:~/temp_git$ git commit -m "Initial commit"
[master (root-commit) 4765536] Initial commit
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 first.html
 create mode 100644 index.html
 create mode 100644 style.css
ttn@ttn:~/temp_git$ git log
commit 47655363d4cec20ea6fbd537cadcf8dcce07c2b2 (HEAD -> master)
Author: Naveen Garg <naveen.garg@tothenew.com>
Date:   Wed Feb 3 13:59:01 2021 +0530

    Initial commit
ttn@ttn:~/temp_git$

```

6. Add a remote

```

ttn@ttn:~/temp_git$ git remote add origin https://github.com/Nav-Garg/my-new-repo.git
ttn@ttn:~/temp_git$ git remote -v
origin  https://github.com/Nav-Garg/my-new-repo.git (fetch)
origin  https://github.com/Nav-Garg/my-new-repo.git (push)
ttn@ttn:~/temp_git$

```

7. Undo changes to a particular file

```

ttn@ttn:~/temp_git$ ls
first.html  index.html  one.txt  README.md  style.css
ttn@ttn:~/temp_git$ cat README.md
# my-new-repo
ttn@ttn:~/temp_git$ echo "naveen" >> README.md
ttn@ttn:~/temp_git$ cat README.md
# my-new-repo
naveen
ttn@ttn:~/temp_git$ git reset --hard
HEAD is now at 4765536 Initial commit
ttn@ttn:~/temp_git$ cat README.md
# my-new-repo

```

8. Push changes to Github

```
ttn@ttn:~/temp_git$ git add .
ttn@ttn:~/temp_git$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        new file:   README.md
        new file:   one.txt

ttn@ttn:~/temp_git$ git push -u origin main
error: src refspec main does not match any.
error: failed to push some refs to 'https://github.com/Nav-Garg/my-new-repo.git'
ttn@ttn:~/temp_git$ git commit -m "first commit"
[master 4a8c518] first commit
 2 files changed, 5 insertions(+)
 create mode 100644 README.md
 create mode 100644 one.txt

ttn@ttn:~/temp_git$ git push -u origin master
Username for 'https://github.com': Nav-Garg
Password for 'https://Nav-Garg@github.com':
Counting objects: 7, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (7/7), 547 bytes | 273.00 KiB/s, done.
Total 7 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/Nav-Garg/my-new-repo.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
ttn@ttn:~/temp_git$
```

9. Clone the repository

Browser tabs: Inbox | Untitled | How | Git: B | GitHub | Queri | Learn | Start | (3) Git | How | (3) Ho | Na x

Address bar: github.com/Nav-Garg/Kisaan-Netra

Navigation bar: Search or jump to... | Pull requests | Issues | Marketplace | Explore

Repository: Nav-Garg / Kisaan-Netra

Buttons: <> Code | ! Issues | Pull requests | Actions | Projects | Wiki | Security | Insights | Settings

Branches: master | 1 branch | 0 tags

Buttons: Go to file | Add file | Code

Files:

File	Commit	Time
info	Final(coding) commit	
main	Final(coding) commit	
phone	Final(coding) commit	
sql file	Final(coding) commit	
.gitignore	Final(coding) commit	9 months ago
Final innotech report(kisaan-netra).d...	Final Report files	9 months ago
README.md	readme file	9 months ago

Clone dropdown:

- Clone
- HTTPS (selected)
- SSH
- GitHub CLI
- New

URL: <https://github.com/Nav-Garg/Kisaan-Netra>

Buttons: Download ZIP

```
ttn@ttn:~/temp_git/clone_repo$ git clone https://github.com/Nav-Garg/Kisaan-Netra.git
Cloning into 'Kisaan-Netra'...
remote: Enumerating objects: 3489, done.
remote: Counting objects: 100% (3489/3489), done.
remote: Compressing objects: 100% (603/603), done.
remote: Total 3489 (delta 2870), reused 3485 (delta 2869), pack-reused 0
Receiving objects: 100% (3489/3489), 33.17 MiB | 6.25 MiB/s, done.
Resolving deltas: 100% (2870/2870), done.
ttn@ttn:~/temp_git/clone_repo$
```

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


```

ttn@ttn:~/temp_git$ git checkout feature1
Switched to branch 'feature1'
ttn@ttn:~/temp_git$ ls
first.html  LICENSE  log      README.md  temp.log
index.html  LICENSE1 one.txt  style.css
ttn@ttn:~/temp_git$ vim one.txt
ttn@ttn:~/temp_git$ git add .
ttn@ttn:~/temp_git$ git commit -m "one.txt feature1 commit"
[feature1 4419e5d] one.txt feature1 commit
 3 files changed, 1 insertion(+)
 create mode 100644 log/tem2.log
 create mode 100644 temp.log
ttn@ttn:~/temp_git$ git checkout issue1
Switched to branch 'issue1'
ttn@ttn:~/temp_git$ ls
first.html  index.html  LICENSE  LICENSE1  one.txt  README.md  style.css
ttn@ttn:~/temp_git$ vim one.txt
ttn@ttn:~/temp_git$ git add .
ttn@ttn:~/temp_git$ git commit -m "one.txt issues1 commit"
[issue1 6fbd7b4] one.txt issues1 commit
 1 file changed, 1 insertion(+), 1 deletion(-)
ttn@ttn:~/temp_git$ cd ..
ttn@ttn:~$ ls
clone_repo  Downloads  file.txt      nav      temp_git
Desktop     examples.desktop  linux-bsd.gif.1  Pictures  Templates
Documents   exercise    Music         Public   Videos

```

```

ttn@ttn:~$ cd clone_git_file/
ttn@ttn:~/clone_git_file$ git clone https://github.com/Nav-Garg/my-new-repo.git
Cloning into 'my-new-repo'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 12 (delta 3), reused 6 (delta 1), pack-reused 0
Unpacking objects: 100% (12/12), done.
ttn@ttn:~/clone_git_file$ ls
my-new-repo
ttn@ttn:~/clone_git_file$ cd my-new-repo/
ttn@ttn:~/clone_git_file/my-new-repo$ ls
first.html  index.html  LICENSE  LICENSE1  one.txt  README.md  style.css
ttn@ttn:~/clone_git_file/my-new-repo$ vim one.txt
ttn@ttn:~/clone_git_file/my-new-repo$ git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
  add
ttn@ttn:~/clone_git_file/my-new-repo$ git add .
ttn@ttn:~/clone_git_file/my-new-repo$ git commit -m "clone file"
[master 009aab0] clone file
 1 file changed, 1 insertion(+)
ttn@ttn:~/clone_git_file/my-new-repo$ git push
Username for 'https://github.com': Nav-Garg
Password for 'https://Nav-Garg@github.com':
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/Nav-Garg/my-new-repo.git/'

```

```

ttn@ttn:~/clone_git_file/my-new-repo$ git push
Username for 'https://github.com': Nav-Garg
Password for 'https://Nav-Garg@github.com':
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 302 bytes | 302.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Nav-Garg/my-new-repo.git
   33a2066..009aab0  master -> master

```

11. Check differences between a file and its staged version

```

ttn@ttn:~/temp_git$ 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:   one.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:   one.txt

ttn@ttn:~/temp_git$ git diff
diff --git a/one.txt b/one.txt
index 5ef3ff3..225d9df 100644
--- a/one.txt
+++ b/one.txt
@@ -1,4 +1,4 @@
 hello github
 naveen
-garg
+i love india
+git/github
ttn@ttn:~/temp_git$

```



```

ttn@ttn:~/temp_git$ git add .
ttn@ttn:~/temp_git$ git diff --staged
diff --git a/one.txt b/one.txt
index 0bdf9e2..225d9df 100644
--- a/one.txt
+++ b/one.txt
@@ -1,3 +1,4 @@
 hello github
 naveen
-garg
+i love india
+git/github
ttn@ttn:~/temp_git$

```

12.Ignore a few files to be checked in

```

ttn@ttn:~/temp_git$ mkdir log
ttn@ttn:~/temp_git$ cd log/
ttn@ttn:~/temp_git/log$ touch tem2.log
ttn@ttn:~/temp_git/log$ cd ..
ttn@ttn:~/temp_git$ touch .gitignore
ttn@ttn:~/temp_git$ 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:   one.txt

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

        .gitignore
        log/
        temp.log

ttn@ttn:~/temp_git$ 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:   .gitignore
        modified:   one.txt

```

13.Create a new branch.

```

ttn@ttn:~/temp_git$ git branch
* master
ttn@ttn:~/temp_git$ git branch feature1
ttn@ttn:~/temp_git$ git branch
feature1
* master
ttn@ttn:~/temp_git$ git checkout feature1
A       .gitignore
M       one.txt
Switched to branch 'feature1'
ttn@ttn:~/temp_git$ git branch
* feature1
  master
ttn@ttn:~/temp_git$

```

14.Diverge them with commits

```

ttn@ttn:temp_git (master)$ git branch
feature1
issue1
* master
ttn@ttn:temp_git (master)$ ls
a.html      index.html  LICENSE1   README.md  test
first.html  LICENSE     one.txt    style.css
ttn@ttn:temp_git (master)$ vim file1.txt
ttn@ttn:temp_git (master)$ git add .
ttn@ttn:temp_git (master)$ git commit -m "file1.txt commit"
[master 4a96bdd] file1.txt commit
ttn@ttn:temp_git (master)$ git status
On branch master
Your branch is ahead of 'origin/master' by 10 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
ttn@ttn:temp_git (master)$ git push origin master
Username for 'https://github.com': Nav-Garg
Password for 'https://Nav-Garg@github.com':
Counting objects: 32, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (27/27), done.
Writing objects: 100% (32/32), 2.82 KiB | 961.00 KiB/s, done.
Total 32 (delta 13), reused 0 (delta 0)
remote: Resolving deltas: 100% (13/13), done.
To https://github.com/Nav-Garg/my-new-repo.git
   009aab0..4a96bdd  master -> master
ttn@ttn:temp_git (master)$ git checkout feature1
Switched to branch 'feature1'
ttn@ttn:temp_git (feature1)$ vim f2.txt
ttn@ttn:temp_git (feature1)$ git add .
ttn@ttn:temp_git (feature1)$ git commit -m "f2.txt"
[feature1 c898e04] f2.txt
 1 file changed, 1 insertion(+)
 create mode 100644 f2.txt
ttn@ttn:temp_git (feature1)$ git push origin feature1
Username for 'https://github.com': Nav-Garg

```

```

ttn@ttn:temp_git (master)$ vim test
ttn@ttn:temp_git (master)$ git add .
ttn@ttn:temp_git (master)$ git commit -m "test file commit"
[master 8a1f764] test file commit
 1 file changed, 2 insertions(+)
 create mode 100644 test
ttn@ttn:temp_git (master)$ git status
On branch master
Your branch and 'origin/master' have diverged,
and have 9 and 1 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

nothing to commit, working tree clean

```

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

```

ttn@ttn:~/temp_git$ git branch
  feature1
  issue1
* master
ttn@ttn:~/temp_git$ git add .
ttn@ttn:~/temp_git$ git commit -m "a.html"
[master 2a6fa69] a.html
 1 file changed, 4 insertions(+)
ttn@ttn:~/temp_git$
ttn@ttn:~/temp_git$
ttn@ttn:~/temp_git$
ttn@ttn:~/temp_git$
ttn@ttn:~/temp_git$ git checkout feature1
Switched to branch 'feature1'
ttn@ttn:~/temp_git$ ls
first.html  LICENSE    log        README.md  temp.log
index.html  LICENSE1  one.txt    style.css
ttn@ttn:~/temp_git$ vim one.txt
ttn@ttn:~/temp_git$ git add .
ttn@ttn:~/temp_git$ git commit -m "one.txt feature1 commit"
[feature1 4419e5d] one.txt feature1 commit
 3 files changed, 1 insertion(+)
 create mode 100644 log/tem2.log
 create mode 100644 temp.log
ttn@ttn:~/temp_git$ git checkout issue1
Switched to branch 'issue1'
ttn@ttn:~/temp_git$ ls
first.html  index.html  LICENSE  LICENSE1  one.txt  README.md  style.css
ttn@ttn:~/temp_git$ vim one.txt
ttn@ttn:~/temp_git$ git add .
ttn@ttn:~/temp_git$ git commit -m "one.txt issues1 commit"
[issue1 6fbd7b4] one.txt issues1 commit
 1 file changed, 1 insertion(+), 1 deletion(-)
ttn@ttn:~/temp_git$

```

16. Try merging and resolve merge conflicts


```
ttn@ttn:~/temp_git$ 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:~/temp_git$ git branch
  feature1
* master
ttn@ttn:~/temp_git$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (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:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
ttn@ttn:~/temp_git$ git add .
ttn@ttn:~/temp_git$ git commit -m "added index.html"
[master d333886] added index.html
 1 file changed, 11 insertions(+)
ttn@ttn:~/temp_git$ vim index.html
ttn@ttn:~/temp_git$ git status
On branch master
```

```
On branch master
Your branch is ahead of 'origin/master' by 2 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:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
ttn@ttn:~/temp_git$ git commit -m "added index.html title1"
On branch master
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)

Changes not staged for commit:
        modified:   index.html

no changes added to commit
ttn@ttn:~/temp_git$ vim index.html
ttn@ttn:~/temp_git$ git add .
ttn@ttn:~/temp_git$ git commit -m "added index.html title2"
[master e6ad963] added index.html title2
 1 file changed, 1 insertion(+), 1 deletion(-)
ttn@ttn:~/temp_git$ git checkout -b issue1
Switched to a new branch 'issue1'
ttn@ttn:~/temp_git$ vim index.html
```

```

ttn@ttn:~/temp_git$ git checkout -b issue1
Switched to a new branch 'issue1'
ttn@ttn:~/temp_git$ vim index.html
ttn@ttn:~/temp_git$ git add -a -m "this is branch issues1"
error: unknown switch `a'
usage: git add [<options>] [--] <paths>...

    -n, --dry-run          dry run
    -v, --verbose          be verbose

    -i, --interactive      interactive picking
    -p, --patch            select hunks interactively
    -e, --edit             edit current diff and apply
    -f, --force            allow adding otherwise ignored files
    -u, --update           update tracked files
    --renormalize          renormalize EOL of tracked files (implies -u)
    -N, --intent-to-add    record only the fact that the path will be added later
    -A, --all              add changes from all tracked and untracked files
    --ignore-removal       ignore paths removed in the working tree (same as --no
-all)
    --refresh              don't add, only refresh the index
    --ignore-errors        just skip files which cannot be added because of error
s
    --ignore-missing       check if - even missing - files are ignored in dry run
    --chmod <(+/-)x>      override the executable bit of the listed files

```

```

ttn@ttn:~/temp_git$ git commit -a -m "this is branch issues1"

```

```

ttn@ttn:~/temp_git$ git commit -a -m "this is branch issues1"
[issue1 53ef288] this is branch issues1
 1 file changed, 1 insertion(+), 1 deletion(-)
ttn@ttn:~/temp_git$ git status
On branch issue1
nothing to commit, working tree clean
ttn@ttn:~/temp_git$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 3 commits.
  (use "git push" to publish your local commits)
ttn@ttn:~/temp_git$ vim index.html
ttn@ttn:~/temp_git$ git commit -a -m "this is branch master title3"
[master 8826c37] this is branch master title3
 1 file changed, 1 insertion(+), 1 deletion(-)
ttn@ttn:~/temp_git$ git merge issue1
Auto-merging index.html
CONFLICT (content): Merge conflict in index.html
Automatic merge failed; fix conflicts and then commit the result.
ttn@ttn:~/temp_git$

```



```

<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<<<<<< HEAD
<h1>This is a Heading title3</h1>
=====
<h1>This is a Heading issue 1 title2</h1>
>>>>>>> issue1

</body>
</html>

```

"index.html" 15L, 201C

8,12

All

```

<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>
<h1>This is a Heading title3</h1>

</body>
</html>

```

-- INSERT --

8,1

All

```
ttn@ttn:~/temp_git$ vim index.html
ttn@ttn:~/temp_git$ git status
On branch master
Your branch is ahead of 'origin/master' by 4 commits.
  (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)

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

        both modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
ttn@ttn:~/temp_git$ git add index.html
ttn@ttn:~/temp_git$ git status
On branch master
Your branch is ahead of 'origin/master' by 4 commits.
  (use "git push" to publish your local commits)

All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:

        modified:   index.html
```

```
        modified:   index.html

ttn@ttn:~/temp_git$ git commit -m "merged issue 1"
[master f9546ae] merged issue 1
ttn@ttn:~/temp_git$
ttn@ttn:~/temp_git$ git log
commit f9546aed3d55933dfcb0381090e5400bedf62d00 (HEAD -> master)
Merge: 8826c37 53ef288
Author: Naveen Garg <naveen.garg@tothenew.com>
Date:   Wed Feb 3 18:34:35 2021 +0530

    merged issue 1

commit 8826c37f293d5f2e03cb97656f1add3408bf8d65
Author: Naveen Garg <naveen.garg@tothenew.com>
Date:   Wed Feb 3 18:26:30 2021 +0530

    this is branch master title3

commit 53ef288b824b608b291ed1712c0f3ef50686efde (issue1)
Author: Naveen Garg <naveen.garg@tothenew.com>
Date:   Wed Feb 3 18:23:04 2021 +0530

    this is branch issues1

commit e6ad9631ceebf8fcf85dde01aa55652c5e7edb75
Author: Naveen Garg <naveen.garg@tothenew.com>
Date:   Wed Feb 3 18:19:36 2021 +0530
```

```

    this is branch issues1

commit e6ad9631ceebf8fcf85dde01aa55652c5e7edb75
Author: Naveen Garg <naveen.garg@tothenew.com>
Date:   Wed Feb 3 18:19:36 2021 +0530

    added index.html title2

commit d333886db6897558ef4abc800a40ebb5230df131
Author: Naveen Garg <naveen.garg@tothenew.com>
ttn@ttn:~/temp_git$

```

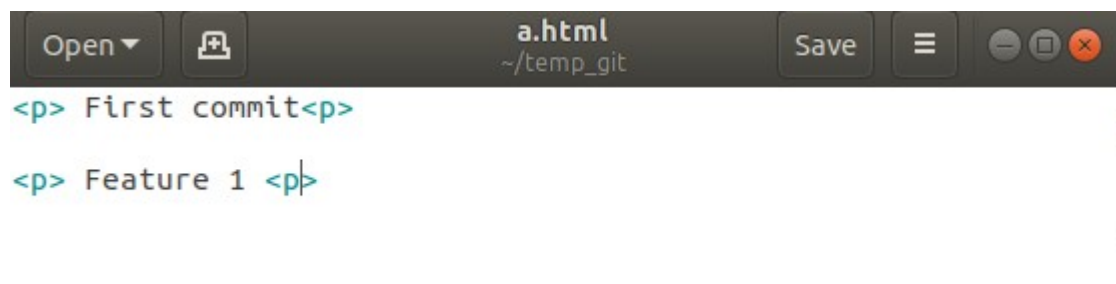
17. Stash the changes and pop them

```

ttn@ttn:~/temp_git$ git log
commit 6b4c1c0d4b78698af1f94fbe05a2db90dc3e0470 (HEAD -> master)
Author: Naveen Garg <naveen.garg@tothenew.com>
Date:   Wed Feb 3 19:08:17 2021 +0530

    a.index

```



```

ttn@ttn:~/temp_git$ git stash
Saved working directory and index state WIP on master: 6b4c1c0 a.index
ttn@ttn:~/temp_git$

```



```

ttn@ttn:~/temp_git$ git log
commit 6b4c1c0d4b78698af1f94fbe05a2db90dc3e0470 (HEAD -> master)
Author: Naveen Garg <naveen.garg@tothenew.com>
Date:   Wed Feb 3 19:08:17 2021 +0530

    a.index

```

```

ttn@ttn:~/temp_git$ git stash apply
On branch master
Your branch is ahead of 'origin/master' by 7 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:   a.html

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

```

```
Open ▾ a.html ~/temp_git Save ≡ ⌵ ⌶ ⌵  
<p> First commit<p>  
  
<p> Feature 1 <p>
```

```
Open ▾ a.html ~/temp_git Save ≡ ⌵ ⌶ ⌵  
<p> First commit<p>  
  
<p> Feature 1 <p>  
  
<p> Feature 2 <p|>
```

```
ttn@ttn:~/temp_git$ git stash  
Saved working directory and index state WIP on master: 6b4c1c0 a.index  
ttn@ttn:~/temp_git$ git stash list  
stash@{0}: WIP on master: 6b4c1c0 a.index  
stash@{1}: WIP on master: 6b4c1c0 a.index  
ttn@ttn:~/temp_git$ git stash apply 0  
On branch master  
Your branch is ahead of 'origin/master' by 7 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:   a.html  
  
no changes added to commit (use "git add" and/or "git commit -a")  
ttn@ttn:~/temp_git$
```

```
Open ▾ a.html ~/temp_git Save ≡ ⌵ ⌶ ⌵  
<p> First commit<p>  
  
<p> Feature 1 <p>  
  
<p> Feature 2 <p>
```

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
```

```
ttn@ttn:~$ cat >> .bashrc  
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 $(parse_git_branch)\$ '  
fi  
unset color_prompt force_color_prompt  
ttn@ttn:~$ source .bashrc  
ttn@ttn:~ $ cd temp_git/  
ttn@ttn:temp_git (issue1)$ git checkout master  
Switched to branch 'master'  
Your branch and 'origin/master' have diverged,  
and have 8 and 1 different commits each, respectively.  
(use "git pull" to merge the remote branch into yours)  
ttn@ttn:temp_git (master)$ git branch  
feature1  
issue1  
* master  
ttn@ttn:temp_git (master)$
```