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

```
ttn@anindya:~$ sudo apt-get install git
[sudo] password for ttn:
Reading package lists... Done
"Building dependency tree
Reading state information... Done
git is already the newest version (1:2.17.1-1ubuntu0.4).
The following packages were automatically installed and are no longer required:
    linux-image-4.15.0-29-generic linux-modules-4.15.0-29-generic
    linux-modules-extra-4.15.0-29-generic
Use 'sudo apt autoremove' to remove them.
To upgraded, 0 newly installed, 0 to remove and 7 not upgraded.

ttn@anindya:~$
```

2. Initialize a Git Repository

```
ttn@anindya:~/assignment2$ git init
prInitialized empty Git repository in /home/ttn/assignment2/.git/
```

3. Add files to the repository 4. Unstage 1 file

```
ttn@anindya:~/assignment2$ touch file1
ttn@anindya:~/assignment2$ git status
On branch master

No commits yet

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

file1

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

ttn@anindya:~/assignment2$
```

## 5.Commit the file

```
ttn@anindya:~/assignment2$ git commit -m "File added"
On branch master

Initial commit

Untracked files:
    file1

nothing added to commit but untracked files present

ttn@anindya:~/assignment2$ git remote add
```

## 6.Add a remote

```
ttn@anindya:~/assignment2$ git remote add origin https://github.com/Ricky2494/repos.git
ttn@anindya:~/assignment2$ git remote -v
origin https://github.com/Ricky2494/repos.git (fetch)
origin https://github.com/Ricky2494/repos.git (push)
ttn@anindya:~/assignment2$ [
```

## 7. Undo changes to a particular file

```
ttn@anindya:~/assignment2$ vi file2
ttn@anindya:~/assignment2$ cat file2

chshhshs
c
c
gsgs
ttn@anindya:~/assignment2$ git checkout file2
ttn@anindya:~/assignment2$ cat file2
ffghss
hshhshs
c
c
c
gsgs
ttn@anindya:~/assignment2$
```

8. Push changes to Github

```
ttn@anindya:~/assignment2$ git push -u origin master
Username for 'https://github.com': Ricky2494
Password for 'https://Ricky2494@github.com':
Counting objects: 3, done.
Writing objects: 100% (3/3), 236 bytes | 236.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/Ricky2494/repos.git
* [new branch] master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
ttn@anindya:~/assignment2$
```

## 9. Clone the repository

```
ttn@anindya:~/assignment2$ cd ~
ttn@anindya:~$ mkdir assign2
ttn@anindya:~$ cd assign2
ttn@anindya:~/assign2$ git clone https://github.com/Ricky2494/repos.git
Cloning into 'repos'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
ttn@anindya:~/assign2$
```

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

```
File Edit View Search Terminal Help

ttn@annindya:-/assignZ5 cd repos

ttn@annindya:-/assignZfpepos yt iftle2

ttn@annindya:-/assignZfpepos yt add file2

ttn@annindya:-/assignZfpepos yt add file2

ttn@annindya:-/assignZfpepos yt push "u origin master

lfile changed, 1 insertion(+), 1 deletion(-)

ttn@annindya:-/assignZfpepos yt push "u origin master

Username for "https://github.com': kickyz949

Password for 'https://github.com': kickyz949

Password for 'https://github.com/Rickyz949@ithub.com':

Counting objects: 300% (3/3), 261 bytes | 261.00 KlB/s, done.

Total 3 (delt e) , reused 0 (delta 0)

To https://github.com/Rickyz949/repos.git

556780d.be6c593 master -> master

Branch 'master' set up to track remote branch 'master' from 'origin'.

ttn@annindya:-/assignZfpepos cd assignment2

bash: cd: assignment2: No such file or directory

ttn@annindya:-/assignZfpepos cd

ttn@annindya:-/assignZfpepos cd

ttn@annindya:-/assignZfpepos cd

ttn@annindya:-/assignment2S git pull origin master

remote: Enumerating objects: 100% (3/5), done.

remote: Enumerating objects: 100% (3/5), done.

remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0

Unpacking objects: 100% (3/3), done.

From https://github.com/Rickyz494/repos

*branch master -> FEICH_HEAD

$56780d.be6c593 master -> origin/master

Updating $56780d.be6c593

Fast-forward

file2 | 2 -

I file changed, a insertion(+), 1 deletion(-)

ttn@annindya:-/assignment25

ftn@annindya:-/assignment25
```

11. Check differences between a file and its staged version

```
ttn@anindya:~/assignment2$ git diff HEAD^
diff --git a/file2 b/file2
index e0fbc61..22c4f02 100644
--- a/file2
+++ b/file2
@@ -1,4 +1,4 @@
-ffghss
thishhshs
C
C
C
ttn@anindya:~/assignment2$
```

12.Ignore a few files to be checked in

13.Create a new branch.

```
ttn@anindya:~/assignment2$ git branch branch2
ttn@anindya:~/assignment2$ git branch
   branch2

* master
ttn@anindya:~/assignment2$
```

- 14. Diverge them with commits
- 15.Edit the same file at the same line on both branches and commit
- 16. Try merging and resolve merge conflicts
- 17. Stash the changes and pop them

```
nothing added to commit but untracked files present (use "git add" to track)
ttn@anindya:~/assignment2$ git stash -u
Saved working directory and index state WIP on branch1: 10ccd77 adding a change
from the feature branch
ttn@anindya:~/assignment2$ git status
On branch branch1
nothing to commit, working tree clean
ttn@anindya:~/assignment2$ git stash pop
Already up to date!
On branch branch1
rUntracked files:
   (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
Dropped refs/stash@{0} (c4e<u>c</u>886723cf721e22b65f7377a687b7d2577e8a)
ttn@anindya:~/assignment2$
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)\$ '
      unset color prompt force color prompt
```