**GITHUB COMMANDS**

ashima@ubuntu:~$ cd github1

**INITIALIZING A GIT REPOSITORY:**

ashima@ubuntu:~/github1$ git init

Initialized empty Git repository in /home/ashima/github1/.git/

ashima@ubuntu:~/github1$ ls -a

. .. .git

ashima@ubuntu:~/github1$ vi file1.txt

**ADDING FILE TO A GIT REPOSITORY**

ashima@ubuntu:~/github1$ git add file1.txt

ashima@ubuntu:~/github1$ git status

On branch master

Initial commit

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: file1.txt

**COMMIT THE FILE:**

ashima@ubuntu:~/github1$ git commit -m "added file1" file1.txt

[master (root-commit) 2fc097d] added file1

1 file changed, 1 insertion(+)

create mode 100644 file1.txt

ashima@ubuntu:~/github1$ git status

On branch master

nothing to commit, working directory clean

ashima@ubuntu:~/github1$

**ADDING MORE BRANCHES:**

ashima@ubuntu:~/github1$ git branch b1

ashima@ubuntu:~/github1$ git checkout b1

Switched to branch 'b1'

ashima@ubuntu:~/github1$ vi filenew.txt

ashima@ubuntu:~/github1$ git add filenew.txt

ashima@ubuntu:~/github1$ git commit -m "added" filenew.txt

[b1 a360b5e] added

1 file changed, 1 insertion(+)

create mode 100644 filenew.txt

ashima@ubuntu:~/github1$ git status

On branch b1

nothing to commit, working directory clean

ashima@ubuntu:~/github1$ git checkout master

Switched to branch 'master'

ashima@ubuntu:~/github1$ git branch b2

ashima@ubuntu:~/github1$ git checkout b2

Switched to branch 'b2'

ashima@ubuntu:~/github1$ vi fileold.txt

ashima@ubuntu:~/github1$ git add fileold.txt

ashima@ubuntu:~/github1$ git commit -m "added" fileold.txt

[b2 d51a343] added

1 file changed, 1 insertion(+)

create mode 100644 fileold.txt

ashima@ubuntu:~/github1$

**MERGING BRANCH B1 WITH BRANCH B2**

ashima@ubuntu:~/github1$ git status

On branch b2

nothing to commit, working directory clean

ashima@ubuntu:~/github1$ ls

file1.txt fileold.txt

ashima@ubuntu:~/github1$ git checkout b1

Switched to branch 'b1'

ashima@ubuntu:~/github1$ ls

file1.txt filenew.txt

ashima@ubuntu:~/github1$ git checkout b2

Switched to branch 'b2'

**ashima@ubuntu:~/github1$ git merge b1**

ashima@ubuntu:~/github1$ ls

file1.txt filenew.txt fileold.txt

ashima@ubuntu:~/github1$ git checkout b1

Switched to branch 'b1'

ashima@ubuntu:~/github1$ ls

file1.txt filenew.txt

ashima@ubuntu:~/github1$

**UNDO CHANGES TO A FILE:**

ashima@ubuntu:~/github1$ git checkout master

Switched to branch 'master'

ashima@ubuntu:~/github1$ cat file1.txt

this is file1

ashima@ubuntu:~/github1$ vi file1.txt

ashima@ubuntu:~/github1$ cat file1.txt

hello

this is file1

ashima@ubuntu:~/github1$ git checkout file1.txt

ashima@ubuntu:~/github1$ cat file1.txt

this is file1

ashima@ubuntu:~/github1$

**PUSHING FILES ON REMOTE REPOSITORY:**

ashima@ubuntu:~/github1$ git remote add origin git@github.com:ashimayadav19/git1.git

ashima@ubuntu:~/github1$ git push -u origin b2

Counting objects: 6, done.

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

Writing objects: 100% (6/6), 480 bytes | 0 bytes/s, done.

Total 6 (delta 0), reused 0 (delta 0)

To git@github.com:ashimayadav19/git1.git

\* [new branch] b2 -> b2

Branch b2 set up to track remote branch b2 from origin.

ashima@ubuntu:~/github1$

**CLONING THE REPOSITORY:**

ashima@ubuntu:~/github1$ git clone git@github.com:ashimayadav19/git1.git

Cloning into 'git1'...

Warning: Permanently added the RSA host key for IP address '192.30.252.131' to the list of known hosts.

remote: Counting objects: 6, done.

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

remote: Total 6 (delta 0), reused 6 (delta 0), pack-reused 0

Receiving objects: 100% (6/6), done.

Checking connectivity... done.

ashima@ubuntu:~/github1$ git remote -v

github git1 (fetch)

github git1 (push)

origin git@github.com:ashimayadav19/git1.git (fetch)

origin git@github.com:ashimayadav19/git1.git (push)

ashima@ubuntu:~/github1$

**PULLING THE FILES FROM THE REPOSITORY:**

ashima@ubuntu:~/github1$ git pull origin b2

Warning: Permanently added the RSA host key for IP address '192.30.252.128' to the list of known hosts.

From github.com:ashimayadav19/git1

\* branch b2 -> FETCH\_HEAD

Updating 2fc097d..d51a343

Fast-forward

fileold.txt | 1 +

1 file changed, 1 insertion(+)

create mode 100644 fileold.txt

**MERGE CONFLICT**

ashima@ubuntu:~/github1$ git checkout master

Switched to branch 'master'

ashima@ubuntu:~/github1$ git branch b3

ashima@ubuntu:~/github1$ git checkout b3

Switched to branch 'b3'

ashima@ubuntu:~/github1$ vi samefile.txt

ashima@ubuntu:~/github1$ git add samefile.txt

ashima@ubuntu:~/github1$ git commit -m "added" samefile.txt

[b3 7d14eaa] added

1 file changed, 1 insertion(+)

create mode 100644 samefile.txt

ashima@ubuntu:~/github1$ ls

git1 samefile.txt

ashima@ubuntu:~/github1$ git checkout master

D file1.txt

D fileold.txt

Switched to branch 'master'

ashima@ubuntu:~/github1$ git branch b4

ashima@ubuntu:~/github1$ git checkout b4

D file1.txt

D fileold.txt

Switched to branch 'b4'

ashima@ubuntu:~/github1$ vi samefile.txt

ashima@ubuntu:~/github1$ git add samefile.txt

ashima@ubuntu:~/github1$ git commit -m "added" samefile.txt

[b4 f81558b] added

1 file changed, 1 insertion(+)

create mode 100644 samefile.txt

ashima@ubuntu:~/github1$ git status

On branch b4

Changes not staged for commit:

(use "git add/rm <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

deleted: file1.txt

deleted: fileold.txt

Untracked files:

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

git1/

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

**ashima@ubuntu:~/github1$ git merge b3**

**Auto-merging samefile.txt**

**CONFLICT (add/add): Merge conflict in samefile.txt**

**Automatic merge failed; fix conflicts and then commit the result.**

ashima@ubuntu:~/github1$