

Semester

DEPARTMENT OF INFORMATION TECHNOLOGY ENGINEERING

BE Semester VIII - INFT

Subject		DEVOPS Lab		
Subject Professor Incharge		Prof. Rohit Barve		
Lab Professor In- charge		Prof. Rohit Barve		
Student Name		Devang Shetye		
Roll Number		18101B0068		
Grade and Subject Teacher's Signature				
Experiment Number	1			
Experiment Title Perform Version Control using GIT,				
Resources /	Hardware:		Software:	
Apparatus	pparatus Comp		GIT	
Required				
Procedure or Steps Create folder				
	Initia	lize git : git init		

on git: git add file1.txt

Create file1.txt in same

folder Check status of

git : git status Add file

Commit file: git commit file1.txt -m "This is a first commit on

file1"

```
ESSelect C:\Users\hp\Desktop\Devops\git practice>git init
Initialized empty Git repository in C:\Users\hp\Desktop\Devops\git practice/.git/
C:\Users\hp\Desktop\Devops\git practice>git status
On branch master
No commits yet
nothing to commit (create/copy files and use "git add" to track)
C:\Users\hp\Desktop\Devops\git practice>git status
On branch master
No commits yet
Untracked files:
    (use "git add (file>..." to include in what will be committed)
    file!.txt
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\hp\Desktop\Devops\git practice>git status
On branch master
No commits yet
C:\Users\hp\Desktop\Devops\git practice>git status
On branch master
No commits yet
Changes to be committed:
    (use "git rm --cached cfile>..." to unstage)
        new file: file1.txt

C:\Users\hp\Desktop\Devops\git practice>git commit file1.txt -m "This is a first commit on file1"
[master (root-commit) f52f6ad] This is a first commit on file1
1 file changed, 1 insertion(+)
    create mode 100644 file1.txt
C:\Users\hp\Desktop\Devops\git practice>git status
On branch master
nothing to commit, working tree clean
```

Do changes in a file1

Do second commit: git commit file1.txt-m "This is a second commit on file1"

Again, do changes in a file1

Do third commit: git commit file1.txt -m "This is a third commit on file1"

```
C:\Users\hp\Desktop\Devops\git practice>git status
On branch master
Changes not staged for commit:
(use "git add \( \frac{file}{1} \)..." to update what will be committed)
(use "git restore \( \frac{file}{1} \)..." to discard changes in working directory)
modified: filel.txt

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

C:\Users\hp\Desktop\Devops\git practice>git commit file1.txt -m "This is a second commit in file1

1 file changed, 2 insertions(+), 1 deletion(-)

C:\Users\hp\Desktop\Devops\git practice>git status
On branch master
nothing to commit, working tree clean

C:\Users\hp\Desktop\Devops\git practice>git status
On branch master
Changes not staged for commit:
(use "git add \( \frac{file}{1} \)..." to update what will be committed)
(use "git restore \( \frac{file}{1} \)..." to update what will be committed)
(use "git restore \( \frac{file}{1} \)..." to discard changes in working directory)
modified: file1.txt

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

C:\Users\hp\Desktop\Devops\git practice>git practice>git status
On branch master

nothing to commit, working tree clean
```

Get logs of commit:

git log Copy id of any

commit

Do hard reset : git reset -hard

```
Author: PrashikNikumbe orashiknikumbe@gmail.com>
Date: Wed Feb 2 23:28:55 2022 +0530

This is a third commit on file1

commit 0a3ed574874bF94c45218e5c5b5443462bd266a2
Author: PrashikNikumbe orashiknikumbe@gmail.com>
Date: Wed Feb 2 23:26:50 2022 +0530

This is a second commit in file1

commit f52f6adf2dbf45dea69868f0a07981879866d22d

Author: PrashikNikumbe orashiknikumbe@gmail.com>
Date: Wed Feb 2 23:26:50 2022 +0530

This is a second commit in file1

commit f52f6adf2dbf45dea69868f0a07981879866d22d

Author: PrashikNikumbe orashiknikumbe@gmail.com>
Date: Wed Feb 2 23:19:37 2022 +0530

This is a first commit on file1

C:\Users\hp\Desktop\Devops\git practice>git reset --hard "f52f6adf2dbf45dea69868f0a07981879866d22d"

HEAD is now at f52f6ad This is a first commit on file1
```

Create file2.txt in same

folder. Add the file2:

git add file2.txt

Commit the file2: git commit file2.txt -m "This is a first

commit on file2" Create branch b1 : git branch b1

Create branch b2 : git branch b2

Switched to b1 : git

checkout b1 Add the file2

for b1: git add file2.txt

Commit the file2 for b1 : git commit file2.txt -m "This is a first commit on file2 for b1"

Do changes in file 2

Second Commit the file2 for b1 : git commit file2.txt -m "This is a second commit on file2 for b1"

Switched to master: git checkout master

```
C:\Users\hp\Desktop\Dev\pS\gat p.dclice_pi. 6dd liez.txt

[master f8aac67] This is a first commit on file2
1 file changed, 1 insertion(*)
create mode 100644 file2.txt

C:\Users\hp\Desktop\Devops\git practice>git branch b1

C:\Users\hp\Desktop\Devops\git practice>git branch b2

C:\Users\hp\Desktop\Devops\git practice>git branch b2

C:\Users\hp\Desktop\Devops\git practice>git status

On branch b1

onthing to commit, working tree clean

C:\Users\hp\Desktop\Devops\git practice>git commit file2.txt -m "This is a first commit on file2 for b1"
on branch b1

nothing to commit, working tree clean

C:\Users\hp\Desktop\Devops\git practice>git status
On branch b1

nothing to commit, working tree clean

C:\Users\hp\Desktop\Devops\git practice>git status
On branch b1

nothing to commit, working tree clean

C:\Users\hp\Desktop\Devops\git practice>git status
On branch b1

c:\Users\hp\Desktop\Devops\git practice>git committed)
(use "git add file>..." to update what will be committed)
(use "git restore cfile>..." to discard changes in working directory)

modified: file2.txt

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

C:\Users\hp\Desktop\Devops\git practice>git commit file2.txt -m "This is a second commit of file2 for b2"
[b1 acdsdad] This is a second commit of file2 for b2

file changed, 2 insertions(*), 1 deletion(-)

C:\Users\hp\Desktop\Devops\git practice>git checkout master
```

checkout b2 Create

file3.txt in same folder

Add the file3 for b2 : git add file3.txt

Commit the file3 for b2 : git commit file3.txt -m "This is a

first commit on file3 for b2"

Switch to master: git checkout master

Now you will find that file3.txt is not available in folder because for file3 add and commit is done on branch b2 and now we are on master. We can switch back to b2 so that

```
C:\Users\hp\Desktop\Devops\git practice>git checkout b2

On branch b2

Untracked files:

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

file3.txt

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

C:\Users\hp\Desktop\Devops\git practice>git add file3.txt

C:\Users\hp\Desktop\Devops\git practice>git commit file3.txt -m "This is a first commit on file3 for b2"

[b2 ce06540] This is a first commit on file3 for b2

1 file changed, 1 insertion(+)

create mode 100644 file3.txt

C:\Users\hp\Desktop\Devops\git practice>git status
On branch b2
nothing to commit, working tree clean

C:\Users\hp\Desktop\Devops\git practice>git checkout master

Switched to branch 'master'

C:\Users\hp\Desktop\Devops\git practice>git status
On branch master

C:\Users\hp\Desktop\Devops\git practice>git checkout b2

D:\Isers\hp\Desktop\Devops\git practice>git checkout b2

D:\Isers\hp\Desktop\Devops\git practice>git checkout b2
```

Conclusion

create branches on git and version control.