Experiment Name of	nt No
AV	Demonstrate & create project in local and remote repository using britishen and levithub and apply init, status, log, and, commit, push, wrifig, clone and reset commands on repository.
	Init Init command:  This command is used to create a local repository  Agit init
	For add remote repository to rotal git repository  \$ git remote add origin https://github.com/ Valhworthisory/devops.git  Lit add command:  This command is used to add one or none file to staging area  \$ git add.

student@DBMs33 MINGW64 ~/desktop/devops git init Initialized empty Git repository in C:/Users/student/Desktop/devops/.git/

git remote add origin https://github.com/Yashwanth1304/devops.git

Experiment No
Init config command!
This command configures the user the crit longing is the first of necessary command used on the crit command line
\$ git configglobal user name "Vayhwanthisou"  § git wrigglobal user email "yashwanthinnaid!  gmail-u
Crit commit command:
git used to commit staged files with
\$ git lommit -m "version!"
git pur command:-  H is wed to upload local repository  content, to a remote repository.
s git pryn origin marter

student@bams33 MINGw64 ~/desktop/devops (master) S git config --global user.email "yashwanthnnaidu@gmail.com"

student@DBMS33 MINGW64 ~/desktop/devops (master)
5 git commit -m "version1"
[master (root-commit) 944db07] version1
2 files changed, 1 insertion(+)
create mode 100644 hello.docx
create mode 100644 hi.txt

Signification of the state of t

-

.11

nt No
Init status command:  The status command is used to display the state of corking directory a tree staging area. It also lists the files that you've changed a those you still need to add to commit
\$ git status
Crit vog command!  This command is used to char the  commit history  git log  Crit reset!  The term reset stands for undoing changes.
sgit reset hand id  unit done!  This command is used to make a copy  of a repo from on existing on
\$git clone nttps://github.com/Youhwanthison/devape
Jan

```
S git status

In branch master

Authors to cummit, working tree cleun

The status

A git status

A git status

A git status

A git status

Changes not staged for commit:

(use "git add efiles..." to update what will be committed)

(use "git restore efiles..." to discard changes in working directory)

A git restore efiles..." to discard changes in working directory)

A changes added to commit (use "git add" and/on "git cormit "a")
```

```
Student Normal -/desktop/devops (master)
Styrit Tog
Commit 4:Natible it 48a in 19 Master)
Author: Mashwanth 1804 cyashwanthumarid Ngmail.com>
Date: The Feb 11 15:07:16 2025 +0530

Wersion 2
Commit 944db077779ed0fa51e5929fc19c966445fff59a
Author: Mashwanth 1804 cyashwanthumarid Ngmail.com>
Date: The Feb 11 14:39:32 2025 +0530

Version 1
```

studentUDBMS33 MINGM64 ~/desktop/devops (master) \$ git reset --hard 944db077179ed0fa51e5929fc19c966445fff59a HEAD is now at 944db07 version1

```
enVaNshuBenVanshu-PC WINGMS4 -/Desktop/Git-example (master)
5 git clone https://github.com/InDaivedi1/Git-Example.git
Cloning into 'Git-Example'...
renote: Enumerating objects: 3, done.
renote: Counting objects: 100% (3/3), done.
renote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
```

	No. 2 Date 18/2/25 Page No 4 xperiment (nit and (nitHub-1)
A2)	Demonstrate to breate a project in remote refository & apply fort, merge, diff, merge worllict, brandh & pull request concepts on repository using brithub.
	Crit Fork!  A york is a rough lopy of a repo Forking  A repository allows you to freely test & debt  without affecting the original prosect
0	Steps:  Login to the Crittub account.  Find the Crittub repository which you want to
3	foric  Chick the fork button on the upper right  side of the repository's page.
	preate Branches allows for working on seperate features without affecting the main branch
	\$ git bromen bromen
	\$ git bromen bromen!  \$ git checkout bromen!  This creates & switches to new bromen couled bromen!

© ImDensed L/Giff nample 2

© Case true is Pulmeness 1 © Advant (Lineary of Table 1) Find is 1 Find is 1 Find in 1

student@DBMS30 MINGW64 ~/desktop/devops (master) S git checkout -b branch1 Switched to a new branch 'branch1'

Experiment No Name of Experiment	mentPage No
tri	t merge:
The to	git merge command facilitates you ro the the date created by git branch & tegrate them into single branch.
\$	git merge master
Chi	t Diff'.
dat dat	compares the different versions of survey the version control system stands is well two for every with orit
\$ (	jit diff branchi
(7) (4) (4)	t morge conflict!  hen two monther are trying to merge both are edited at the same time in the samefile brit won't be able identify which vorsion is to take for hanger. Such à situation is called merge long
\$	git merge branchi

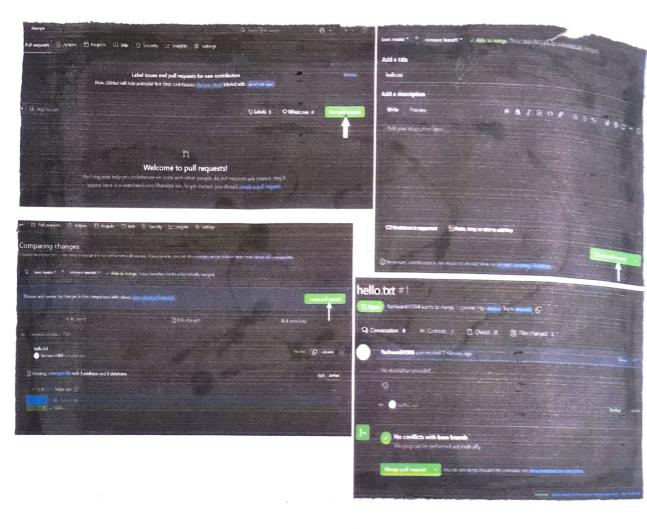
```
student@DBMS30 MINGw64 ~/desktop/devops (branch1)
$ git merge master
Already up to date.

$tudent@DBMS30 MINGw64 ~/desktop/devops (branch1)
$ git switch master
M lab.txt
Switched to branch 'master'
```

```
student/DBMS30 MINGW64 ~/desktop/devops (master)
S git diff branch!
warning: in the working copy of 'lab.txt', LF will be replaced by CRLF the next time Git Inuches in index ce01362..2967aca 100644
--- a/lab.txt
+++ b/lab.txt
ad =1 +1 00
hello
```

student@DBMS30 MINGW64 ~/desktop/devops/conflict (main)
\$ git merge branch1
Auto-merging vvce.txt
CONFLICT (content): Merge conflict in vvce.txt
Automatic merge failed; fix conflicts and then commit the result.

				Date.				e No	6
	Unit It the	pull!-  yetches  ren  m	E mote GitH	merge do ublbou	your	onges Loo	king the	di di gub	rectory brama
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24.2	5/								
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	nt No. A3 Date 4/3/25 Page No 7 Experiment 5(n)king
A3.	Demonstrate the process of integration github repository with Jenkins to automate the project extension in III co pipeline
	Download and intall tentine
	Pownload Jenting. Under VIS. Lick on windows.  * After the file is downloaded unzig it.  Click on the folder & inetall it select "finish"  onle don
	Firm Jenking on wealnost 8081  - open browser a type "localhost: 8081"  - Enter the wedentials a login.
	Jenkins server interfale  * New items allows you to create a newprise  * Build history enows the status of your build  * Manage system deals with the various  Whigherations of the system.
	configuration of Jenkins!
	for project choose "Freestyle Project"

🕴 Jenkins Q tour ( CM(14) Derthouse As



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1 1





Freestyle project
This is the senter fusion of viernes, serains will belief your project combining any SOM with any build system, and this can be even used for spreeding other man software build.

## pd Pptine

Singlement drug running advises that our size involute build eigens. Suitable for funding province thereing entering ent

( ). Multi-configuration project.

Solution to crossite that much steep number of different configurations out as testing on multiple conceptions, district match.

	t No
2	Click on newly addecreated prosect and move to configuration. Under Low code management provide git reposito
3.	Provide bromen name where prosective located
H.	Under Build triggers select Poll Sim on lonfigure the schedule according to your project
\$	In build steps choose "Execute windows bo wommand" and provide command for execution
6	Apply and save configuration.
<b>3</b>	click on "Build NOW" for detailed output click "lonsole output" & verify the process. F build status will be displayed acrord to your projett implementation

	Repositories Y		
	Repository URL 9		***
	https://github.com/A	milliovala/Dema gr	
11	Credentials 7		
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		Build Triggers	
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		Trigger builds remotely (e.g., from scripts) Build after other projects are built	
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Build Steps		Trigger builds remotely (e.g., from scripts)  Build after other projects are built ?  Build periodically ?  GitHub hook trigger for GITScm polling ?  Poll SCM ?  Schedule ?	
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Source Code Management