## DEVOPS-21CS62

**A1**. Demonstrate and Create project in local and remote repository using GitBash and GitHub and apply init, status, log, add, commit, push, config, clone and reset commands on repository.

### Git **init** command:

Installation of Repository

Description: The "git init" command initializes a new Git repository in the current directory

Syntax : git int [Repository name]

Example: git int

Git status command:

Description

Show the working tree Status

Syntax : git status

Example : git status

Git log command:

Description

Shows the commit history for the current branch.

Syntax : git log

Example :git log

Git **add** command:

Description

Stages changes in the working directory for the next commit.

Syntax :git add [file(s)]

Example: git add README.md

## **DEVOPS-21CS62**

### Git commit command:

Description

Records changes to the repository with a message.

Syntax :git commit -m "commit message"

Example :git commit -m "initial commit"

## Git **push** command:

Description

Uploads local commits to a remote repository.

Syntax :git push [remote-name] [branch-name]

Example :git push origin master

## Git **config** command:

Description

Sets Git configuration values such as user name and email.

Syntax :git config --global [key] [value]

Example: git config --list

### Git **clone** command:

Description

Creates a copy of a remote repository on your local machine.

Syntax :git clone [repository-url]

Example :git clone https://github.com/username/projectname.git

## Git Reset command:

Description

Resets the current HEAD to a specified state, optionally modifying the staging area.

Syntax :git reset [commit]

Example :git reset HEAD~1

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# Git user configuration details

```
student@M306-59 MINGW64 ~
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=c:/Program Files/Git/mingw64/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.email=vvce22cse0076@vvce.ac.in
user.name=Yashwanth S
```

Configuration	Execution	Viva	Total	Verified By