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

Description

The git init command is used to initialize a new Git repository. It's typically the first command you run when starting a new project that you want to track with Git.

Syntax : git init

Example : git init

Git **status** command

Description

git status shows you which files have changed, which are staged for commit, and which aren't being tracked yet.

Syntax : git status

Example : git status

Git **log** command

Description

git log shows a list of past changes (commits) in your project. It tells you who made each change, when, and what the change was about.

Syntax :git log

Example :git log

Git **add** command: git add <file>

Description

git add adds changes in your files to the staging area, preparing them to be included in your next commit.

Syntax :git add <file>

Example :git add .

Git **commit** command:

Description

git commit saves the changes you’ve added to the staging area into your project’s history. Each commit records a snapshot of your files along with a message describing what was changed.

Syntax : git commit -m "commit message"

Example : git commit -m "Update contact form"

Git **push** command:

Description

git push sends your saved changes from your computer to an online repository so others can see them.

Syntax : git push <remote> <branch>

Example : git push origin main

Git **config** command:

Description

The git config command is used to set up Git settings, like your name and email, which are recorded with your commits. It can also configure other preferences for how Git works on your computer.

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

Example : git config --global user.name "sumans-19"

Git **clone** command:

Description

The git clone command copies an existing remote repository to your local computer. It downloads all the files, history, and branches so you can start working on the project.

Syntax : git clone <repository-url>

Example : git clone https://github.com/sumasn-19/devops.git

Git **Reset** command:

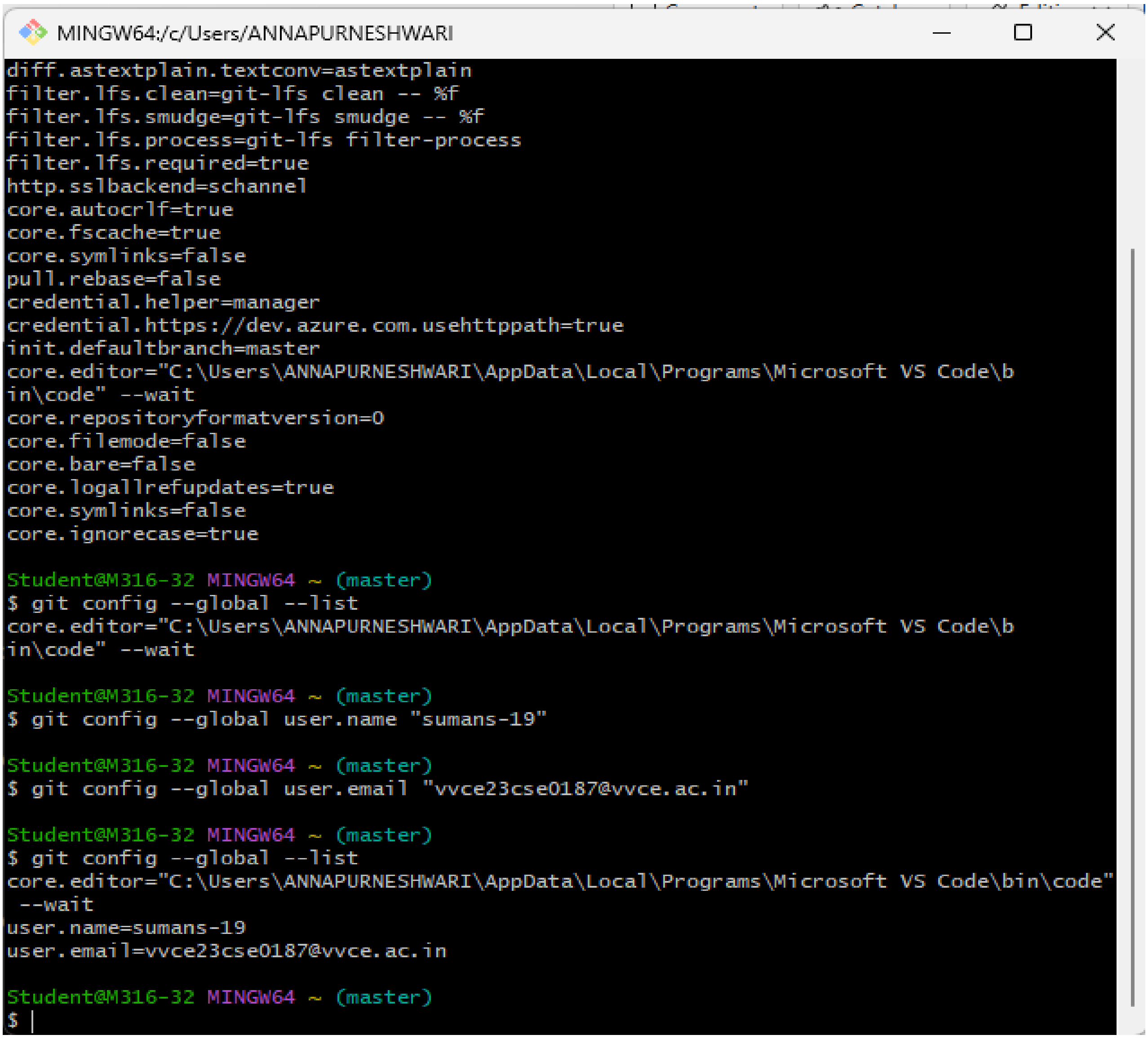
Description

git reset changes the current branch’s history, allowing undoing commits, unstaging files, or discarding changes, using options like --soft, --mixed, and --hard.

Syntax : git reset [--soft | --hard] <commit>

Example : git reset myfile.txt

Git user configuration details



```
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=schannel
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
core.editor="C:\Users\ANNAPURNESHWARI\AppData\Local\Programs\Microsoft VS Code\b
in\code" --wait
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.symlinks=false
core.ignorecase=true

Student@M316-32 MINGW64 ~ (master)
$ git config --global --list
core.editor="C:\Users\ANNAPURNESHWARI\AppData\Local\Programs\Microsoft VS Code\b
in\code" --wait

Student@M316-32 MINGW64 ~ (master)
$ git config --global user.name "sumans-19"

Student@M316-32 MINGW64 ~ (master)
$ git config --global user.email "vvce23cse0187@vvce.ac.in"

Student@M316-32 MINGW64 ~ (master)
$ git config --global --list
core.editor="C:\Users\ANNAPURNESHWARI\AppData\Local\Programs\Microsoft VS Code\bin\code"
 --wait
user.name=sumans-19
user.email=vvce23cse0187@vvce.ac.in

Student@M316-32 MINGW64 ~ (master)
$ |
```

Configuration	Execution	Viva	Total	Verified By