touch arr.txt   Creates a new empty file named arr.txt
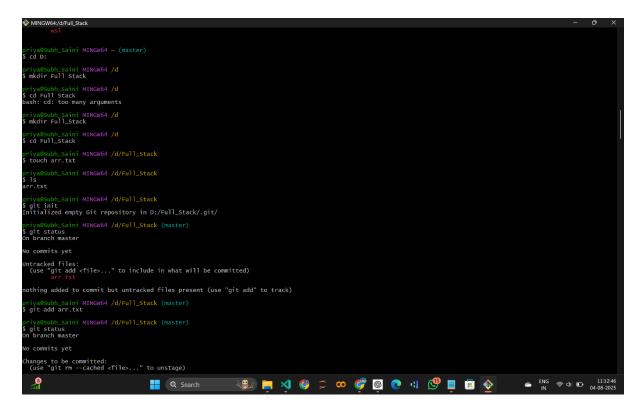
git --version   Shows the installed Git version.

ls   Lists files and directories in the current directory.

```
MINGW64:/d/Full_Stack
'python basic revision'/
source/
wsl

priya@Subh_Saini MINGW64 ~ (master)
$ git init
Reinitialized existing Git repository in C:/Users/priya/.git/

priya@Subh_Saini MINGW64 ~ (master)
$ git status
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'NetHood/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Desktop/git bash/gitppt.pptx
        new file:   Desktop/git bash/gittext.txt
        new file:   Desktop/git bash/gitword.docx

Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    Desktop/git bash/gitppt.pptx
        deleted:    Desktop/git bash/gittext.txt
        deleted:    Desktop/git bash/gitword.docx

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        -1.14-windows.xml
        .android/
        .bash_history
        .cache/
        .conda/
        .dotnet/
        .eclipse/
        .gitconfig
        .gk/
        .ipython/
        .jupyter/
        .lesshst
        .matplotlib/
        .obs64/
```

git init   Initializes a new Git repository in the current folder.

git status   Displays the status of changes in the Git repository.

```
MINGW64:/d/Full_Stack                                                          —  □  ×
      wsl

priya@Subh_Saini MINGW64 ~ (master)
$ cd D:

priya@Subh_Saini MINGW64 /d
$ mkdir Full Stack

priya@Subh_Saini MINGW64 /d
$ cd Full Stack
bash: cd: too many arguments

priya@Subh_Saini MINGW64 /d
$ mkdir Full_Stack

priya@Subh_Saini MINGW64 /d
$ cd Full_Stack

priya@Subh_Saini MINGW64 /d/Full_Stack
$ touch arr.txt

priya@Subh_Saini MINGW64 /d/Full_Stack
$ ls
arr.txt

priya@Subh_Saini MINGW64 /d/Full_Stack
$ git init
Initialized empty Git repository in D:/Full_Stack/.git/

priya@Subh_Saini MINGW64 /d/Full_Stack (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        arr.txt

nothing added to commit but untracked files present (use "git add" to track)
priya@Subh_Saini MINGW64 /d/Full_Stack (master)
$ git add arr.txt

priya@Subh_Saini MINGW64 /d/Full_Stack (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
```

cd D: hanges to drive D (Windows-style; not typical Linux).

mkdir Full Stack   Creates a directory named "Full Stack".

cd Full Stack   Navigates into the "Full Stack" directory.

mkdir Full_Stack   Creates a directory named "Full_Stack".

cd Full_Stack   Navigates into the "Full_Stack" directory.

touch arr.txt   Creates a new empty file named arr.txt.
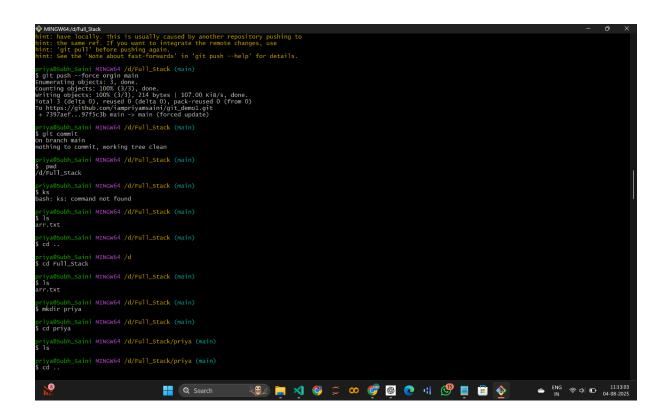
ls   Lists files and directories.

git init   Initializes a Git repo in the current directory.

git status   Shows the status of your working directory and staging area.

git add arr.txt   Adds arr.txt to the staging area.

git status   Shows updated status after staging.

```
MINGW64:/d/Full_Stack                                                    —  □  X

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   arr.txt

priya@Subh_Saini MINGW64 /d/Full_Stack (master)
$ git commit -m "first commit"
[master (root-commit) 97f5c3b] first commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 arr.txt

priya@Subh_Saini MINGW64 /d/Full_Stack (master)
$ git remote add orgin https://github.com/iampriyamsaini/git_demo1.git

priya@Subh_Saini MINGW64 /d/Full_Stack (master)
$ git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'origin'

priya@Subh_Saini MINGW64 /d/Full_Stack (master)
$ git push --force origin main
error: src refspec main does not match any
error: failed to push some refs to 'origin'

priya@Subh_Saini MINGW64 /d/Full_Stack (master)
$ git branch -m main

priya@Subh_Saini MINGW64 /d/Full_Stack (main)
$ git push -u origin main
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

priya@Subh_Saini MINGW64 /d/Full_Stack (main)
$ git push --force origin main
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

priya@Subh_Saini MINGW64 /d/Full_Stack (main)
$ git push -u orgin main
To https://github.com/iampriyamsaini/git_demo1.git
 ! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'https://github.com/iampriyamsaini/git_demo1.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
```

git commit -m "first commit"   Commits changes with a message.

git remote add orgin <url>   Adds a remote repository named "orgin" (typo of "origin").

git push -u origin main   Pushes code to the origin remote's main branch.

git push --force origin main   Force-pushes current branch to origin/main.

git branch -m main   Renames the current branch to "main".

git push -u origin main   Pushes the renamed main branch to remote origin.

git push --force origin main   Force-pushes the renamed main branch.

git push -u orgin main   Pushes to "orgin" (again typo of "origin").

git push --force orgin main   Force-pushes to the wrong remote "orgin".

pwd   Prints the current working directory.

ls   Lists directory contents.

cd ..   Moves up one directory level.

cd Full_Stack   Enters Full_Stack directory.

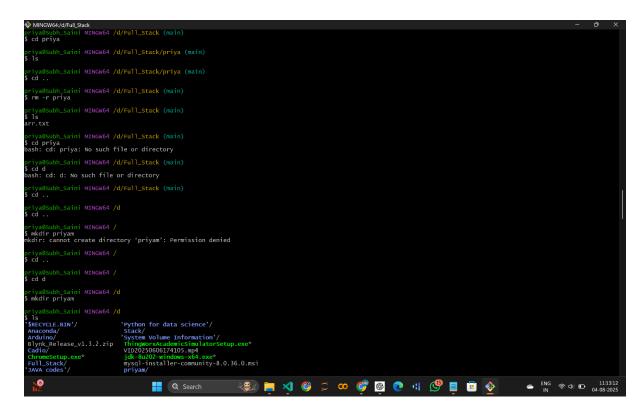# ls   Lists contents.

mkdir priya   Creates a folder named priya.

priya   Changes into the priya directory.

ls   Lists contents (likely empty).

cd ..   Goes up one level.

```
MINGW64:/d/Full_Stack
priya@Subh_Saini MINGW64 /d/Full_Stack (main)
$ cd priya

priya@Subh_Saini MINGW64 /d/Full_Stack/priya (main)
$ ls

priya@Subh_Saini MINGW64 /d/Full_Stack/priya (main)
$ cd ..

priya@Subh_Saini MINGW64 /d/Full_Stack (main)
$ rm -r priya

priya@Subh_Saini MINGW64 /d/Full_Stack (main)
$ ls
arr.txt

priya@Subh_Saini MINGW64 /d/Full_Stack (main)
$ cd priya
bash: cd: priya: No such file or directory

priya@Subh_Saini MINGW64 /d/Full_Stack (main)
$ cd d
bash: cd: d: No such file or directory

priya@Subh_Saini MINGW64 /d/Full_Stack (main)
$ cd ..

priya@Subh_Saini MINGW64 /d
$ cd ..

priya@Subh_Saini MINGW64 /
$ mkdir priyam
mkdir: cannot create directory 'priyam': Permission denied

priya@Subh_Saini MINGW64 /
$ cd ..

priya@Subh_Saini MINGW64 /
$ cd d

priya@Subh_Saini MINGW64 /d
$ mkdir priyam

priya@Subh_Saini MINGW64 /d
$ ls
'$RECYCLE.BIN'/              'Python for data science'/
 Anaconda/                    Stack/
 Arduino/                    'System Volume Information'/
 Blynk_Release_v1.3.2.zip     ThingWorxAcademicSimulatorSetup.exe*
 Cadio/                       VID20250606174105.mp4
 ChromeSetup.exe*             jdk-8u202-windows-x64.exe*
 Full_Stack/                  mysql-installer-community-8.0.36.0.msi
'JAVA codes'/                 priyam/
```

rm -r priya   Deletes the priya directory and its contents.

ls   Lists contents.

cd priya   Fails if priya was deleted.

cd d   Enters directory named d (if exists).

cd ..   Goes up one level.

mkdir priyam   Creates a directory named priyam.

touch string.txt   Creates empty file string.txt.

echo "..." > string.txt   Writes text into string.txt (overwrites if exists).

echo "..." > string.txt   Same as above; replaces previous content.

echo "..." > string.txt   Again overwrites content with new string.

echo "..." >> string.txt   Appends text to string.txt.

echo "..." >> string.txt   Appends another line.

cat > string2.txt   Starts writing to string2.txt (manual input ends with Ctrl+D).

ls   Lists files.

cat string2.txt   Displays contents of string2.txt.

cat string1.txt   Displays contents of string1.txt.

cat string.txt   Displays contents of string.txt.

```
MINGW64:/d/Full_Stack
$ cat string.txt
Hello World my name is Priyam Saini Hello World
Hello World my name is Priyam Saini Hello World hello world
Hello World my name is Priyam Saini Hello World hello world hello

priya@Subh_Saini MINGW64 /d/priyam
$ rm string.txt string1.txt
rm: cannot remove 'string1.txt': No such file or directory

priya@Subh_Saini MINGW64 /d/priyam
$ mv string.txt string1.txt
mv: cannot stat 'string.txt': No such file or directory

priya@Subh_Saini MINGW64 /d/priyam
$ cat string1.txt
cat: string1.txt: No such file or directory

priya@Subh_Saini MINGW64 /d/priyam
$ cat string.txt
cat: string.txt: No such file or directory

priya@Subh_Saini MINGW64 /d/priyam
$ ls
string2.txt

priya@Subh_Saini MINGW64 /d/priyam
$ mv string2.txt string1.txt

priya@Subh_Saini MINGW64 /d/priyam
$ ls
string1.txt

priya@Subh_Saini MINGW64 /d/priyam
$ cat string1.txt
his is line 1
this is line 2

priya@Subh_Saini MINGW64 /d/priyam
$ cat > string2.txt
hello world
my  name is priyam

priya@Subh_Saini MINGW64 /d/priyam
$ ls
string1.txt   string2.txt

priya@Subh_Saini MINGW64 /d/priyam
$ mv string1.txt /d

priya@Subh_Saini MINGW64 /d/priyam
$ ls
string2.txt
```

rm string.txt string1.txt   Deletes both string.txt and string1.txt.

mv string.txt string1.txt   Renames or moves string.txt to string1.txt.

cat string1.txt   Displays contents of string1.txt.

cat string.txt   Fails if string.txt was renamed or deleted.

ls   Lists files.

mv string2.txt string1.txt   Overwrites string1.txt with string2.txt.

ls   Lists files.

cat string1.txt   Displays content of string1.txt.

cat > string2.txt   Starts editing string2.txt manually.

ls   Lists files.

mv string1.txt /d   Moves string1.txt to /d directory.

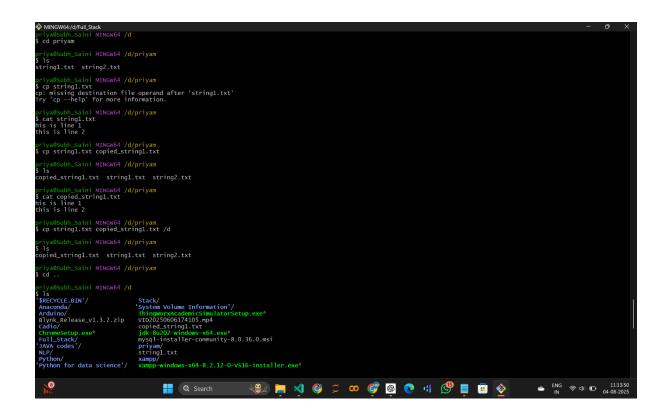| Command	Description
# cd ..	Goes up one directory.
# ls	Lists files.
# mv string1.txt/priyam	Invalid path (mistake).
# mv string1.txt /priyam	Moves file to /priyam (must exist).
# mv string1.txt /d/priyam	Moves file to /d/priyam folder.
# ls	Lists contents.
# cd priyam	Enters priyam folder.
# ls	Lists files

cp string1.txt   Incomplete copy command (missing destination).

cat string1.txt   Displays string1.txt.

cp string1.txt copied_string1.txt   Copies string1.txt to copied_string1.txt.

ls   Lists contents.

cat copied_string1.txt   Displays the copied file.

cp string1.txt copied_string1.txt /d   Incorrect usage (should copy to a directory).

ls   Lists contents.

cd ..   Goes up one level.

```
MINGW64:/d/Full_Stack
'Python for data science'/    xampp-windows-x64-8.2.12-0-VS16-installer.exe*

priya@Subh_Saini MINGW64 /d
$ cd priyam

priya@Subh_Saini MINGW64 /d/priyam
$ ls
copied_string1.txt  string1.txt  string2.txt

priya@Subh_Saini MINGW64 /d/priyam
$ nano string1.txt

priya@Subh_Saini MINGW64 /d/priyam
$ cat string1.txt
hello nakul

priya@Subh_Saini MINGW64 /d/priyam
$ git branch
fatal: not a git repository (or any of the parent directories): .git

priya@Subh_Saini MINGW64 /d/priyam
$ cd main
bash: cd: main: No such file or directory

priya@Subh_Saini MINGW64 /d/priyam
$ git branch main
fatal: not a git repository (or any of the parent directories): .git

priya@Subh_Saini MINGW64 /d/priyam
$ git branch -m main
fatal: not a git repository (or any of the parent directories): .git

priya@Subh_Saini MINGW64 /d/priyam
$ cd full stack
bash: cd: too many arguments

priya@Subh_Saini MINGW64 /d/priyam
$ cd Full_Stack
bash: cd: Full_Stack: No such file or directory

priya@Subh_Saini MINGW64 /d/priyam
$ cd ..

priya@Subh_Saini MINGW64 /d
$ cd Full_Stack

priya@Subh_Saini MINGW64 /d/Full_Stack (main)
$ git clone https://github.com/iampriyamsaini/git_demo1
Cloning into 'git_demo1'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 6 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
```

nano string1.txt   Opens string1.txt in the nano text editor.

cat string1.txt   Displays contents of string1.txt.

git branch   Lists local branches.

cd main   Tries to enter directory named "main".

git branch main   Creates a new branch named "main".

git branch -m main   Renames current branch to "main".

cd Full_Stack   Enters Full_Stack directory.

cd ..   Goes up one level.

cd Full_Stack   Enters Full_Stack again.

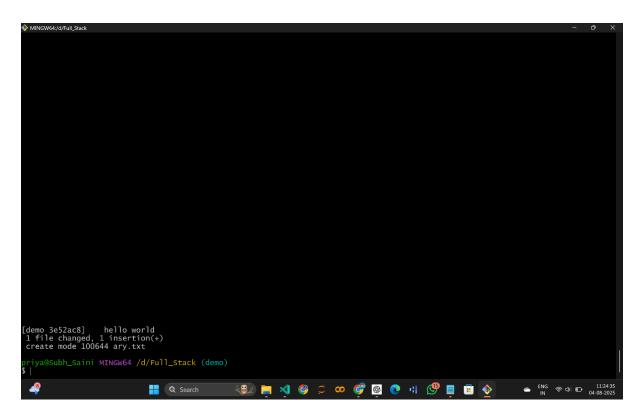# git clone <repo>   Clones a remote Git repository to local.

git branch demo   Creates a new branch called demo.

git branch   Shows all branches.

git checkout demo   Switches to demo branch.

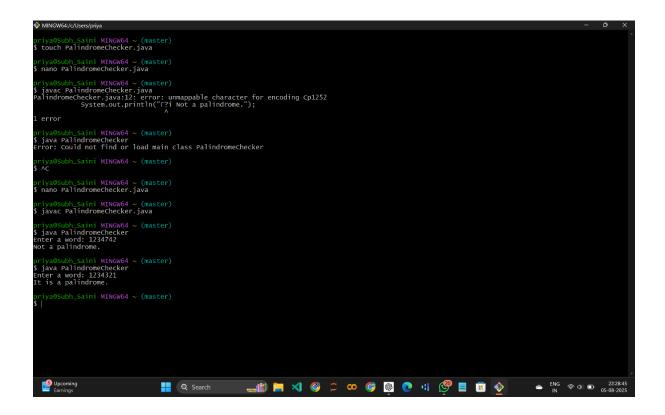# git log   Shows commit history.

```
[demo 3e52ac8]    hello world
 1 file changed, 1 insertion(+)
 create mode 100644 ary.txt

priya@Subh_Saini MINGW64 /d/Full_Stack (demo)
$ |
```

touch ary.txt   Creates an empty file named ary.txt.

echo "..."   ary.txt   Writes text to ary.txt.

git add ary.txt   Stages ary.txt for commit.

git commit   Opens editor to write commit message.

• *JAVA PROGRAM*

touch PalindromeChecker.java   Creates an empty Java file.

nano PalindromeChecker.java   Opens Java file in nano editor.

javac PalindromeChecker.java   Compiles Java program.

java PalindromeChecker   Runs compiled Java program.

nano PalindromeChecker.java   Opens Java file again.

javac PalindromeChecker.java   Re-compiles after edits.

java PalindromeChecker   Executes the program.

java PalindromeChecker   Runs Java program again.