

Objectives

Familiar with Git commands like git init, git status, git add, git commit, git push, and git pull.

In this hands-on lab, you will learn how to

- Setup your machine with Git Configuration
- Integrate notepad++.exe to Git and make it a default editor
- Add a file to source code repository

Prerequisites

Install Git Bash client in your machine

Step-by-step procedure:

1 — Verify Git & configure identity

1. Open **Git Bash** and check Git is installed:

```
git --version
```

2. Configure your user name and email (replace with your details):

```
git config --global user.name "Your Name"  
git config --global user.email "you@example.com"
```

3. Verify configuration:

```
git config --global --list
```

2 — Set Notepad as default Git editor

In Git Bash:

```
git config --global core.editor "C:/Windows/notepad.exe"
```

Verify the setting

```
git config --global --get core.editor
```

You should see:

```
C:/Windows/notepad.exe
```

```
MINGW64:/c/Users/LENOVO/GitDemo

LENOVO@DESKTOP-292MR8U MINGW64 ~
$ git --version
git version 2.46.0.windows.1

LENOVO@DESKTOP-292MR8U MINGW64 ~
$ git config --global user.name pooja
git config --global user.email 727722eucy030@skcet.ac.in

LENOVO@DESKTOP-292MR8U MINGW64 ~
$ git config --global --list
credential.https://git-codecommit.us-east-1.amazonaws.com.provider=generic
user.email=727722eucy030@skcet.ac.in
user.name=pooja
credential.https://git-codecommit.ap-south-1.amazonaws.com.provider=generic
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

LENOVO@DESKTOP-292MR8U MINGW64 ~
$ git config --global core.editor "C:/Windows/notepad.exe"

LENOVO@DESKTOP-292MR8U MINGW64 ~
$ git config --global --get core.editor
C:/Windows/notepad.exe
```

3 — Create local repository, add file, commit (step-by-step)

```
LENOVO@DESKTOP-292MR8U MINGW64 ~/test-git (master)
$ mkdir ~/GitDemo
cd ~/GitDemo
git init
Initialized empty Git repository in C:/Users/LENOVO/GitDemo/.git/
```

```
LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ ls -la
total 20
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 ./
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 ../
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 .git/

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ cat > welcome.txt <<'EOF'
Welcome to GitDemo
This file was created for the Git hands-on lab.
EOF
```

```
LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ ls -la
cat welcome.txt
total 21
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:50 ./
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 ../
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 .git/
-rw-r--r-- 1 LENOVO 197121 67 Aug 10 18:50 welcome.txt
Welcome to GitDemo
This file was created for the Git hands-on lab.

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git status
On branch master

No commits yet

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

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

The screenshot shows a Windows terminal window on the left and a commit message editor on the right. The terminal window is titled "MINGW64 ~/Users/LENOVO/GitDemo" and shows the following commands and output:

```
$ mkdir ~/GitDemo
cd ~/GitDemo
git init
Initialized empty Git repository in C:/Users/LENOVO/GitDemo/.git/

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ ls -la
total 20
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 ./
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 ../
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 .git/

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ cat > welcome.txt <<'EOF'
welcome to GitDemo
This file was created for the Git hands-on lab.
EOF

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ ls -la
total 21
-rw-r--r-- 1 LENOVO 197121 67 Aug 10 18:50 welcome.txt
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 .
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 ..
drwxr-xr-x 1 LENOVO 197121 0 Aug 10 18:48 .git/

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git status
On branch master

No commits yet

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

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

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git add welcome.txt
git status
warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the next time Git touches it
On branch master

No commits yet

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

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git commit
hint: waiting for your editor to close the file... |
```

The commit message editor on the right shows the following text:

```
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch master
#
# Initial commit
#
# Changes to be committed:
#   new file:   welcome.txt
#
Hello all...Now I am working on GIT Hands-on week8
```

The bottom of the terminal window shows the Windows taskbar with the search bar and various application icons. The system tray shows the time as 6:53 pm on 10/08/2025.

```
LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git add welcome.txt
git status
warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the next time Git touches it
On branch master

No commits yet

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

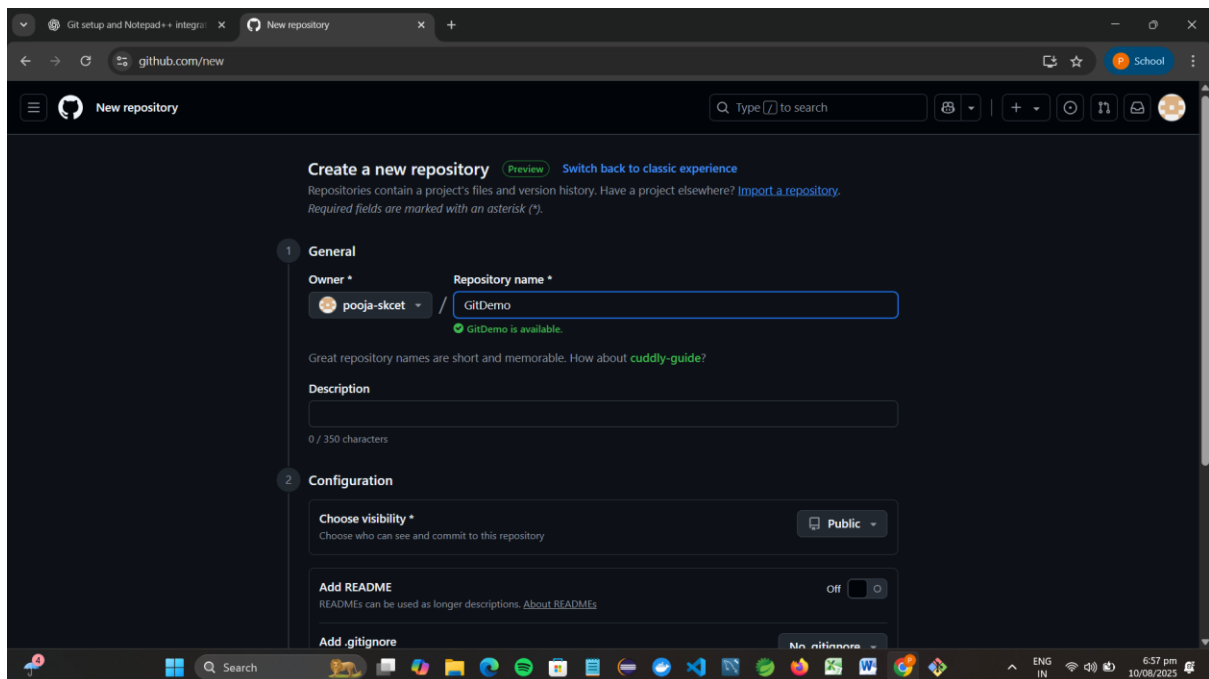
LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git commit
[master (root-commit) e2e88a9] Hello all...Now I am working on GIT Hands-on week8
1 file changed, 2 insertions(+)
create mode 100644 welcome.txt
```

```
LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git commit
[master (root-commit) e2e88a9] Hello all...Now I am working on GIT Hands-on week8
1 file changed, 2 insertions(+)
create mode 100644 welcome.txt

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git commit -m "Add welcome.txt"
On branch master
nothing to commit, working tree clean

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git log --oneline
e2e88a9 (HEAD -> master) Hello all...Now I am working on GIT Hands-on week8
```

4 — Create remote repo (GitLab/GitHub) and push local → remote



```
LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git remote add origin https://github.com/pooja-skct/GitDemo.git

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git remote -v
origin https://github.com/pooja-skct/GitDemo.git (fetch)
origin https://github.com/pooja-skct/GitDemo.git (push)

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git branch -M main

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 310 bytes | 155.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/pooja-skct/GitDemo.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```