

1. Git-HOL

Step 1: Setup your machine with Git Configuration

```
C:\Users\USER>git version
git version 2.45.2.windows.1

C:\Users\USER>git config user.name "PETCHIVARADHAN2005"

C:\Users\USER>git config user.email "lpetchi2005@gmail.com"

C:\Users\USER>git config --global --list
user.name=PETCHIVARADHAN2005
user.email=lpetchi2005@gmail.com
```

Step 2: Integrate notepad++.exe to Git and make it a default editor

```
C:\Users\USER>git config --global core.editor "notepad++ -multiInst -notabbar -nosession -noPlugin"

C:\Users\USER>git config --global core.editor
notepad++ -multiInst -notabbar -nosession -noPlugin

C:\Users\USER>git config --global --list
user.name=PETCHIVARADHAN2005
user.email=lpetchi2005@gmail.com
user.email=lpetchi2005@gmail.com
http.postbuffer=157286400
http.lowspeedlimit=0
http.lowspeedtime=999999
core.editor=notepad++ -multiInst -notabbar -nosession -noPlugin

C:\Users\USER>git config --global -e
hint: Waiting for your editor to close the file... notepad++ -multiInst
-notabbar -nosession -noPlugin: line 1: notepad++: command not found
error: there was a problem with the editor 'notepad++ -multiInst -notabbar -nosession -noPlugin'
```

```
C: > Users > USER > .gitconfig
1 [user]
2   name = PETCHIVARADHAN2005
3   gmail = lpetchi2005@gmail.com
4   email = lpetchi2005@gmail.com
5 [http]
6   postBuffer = 157286400
7   lowSpeedLimit = 0
8   lowSpeedTime = 999999
9 [core]
10  editor = notepad++ -multiInst -notabbar -nosession -noPlugin
11
```

Step 3: Add a file to source code repository

```
C:\Users\USER>mkdir GitDemo

C:\Users\USER>cd GitDemo

C:\Users\USER\GitDemo>git init
Initialized empty Git repository in C:/Users/USER/GitDemo/.git/

C:\Users\USER\GitDemo>dir /a
Volume in drive C is Acer
Volume Serial Number is 68F9-EBC9

Directory of C:\Users\USER\GitDemo

10-08-2025  19:18    <DIR>          .
10-08-2025  19:18    <DIR>          ..
10-08-2025  19:18    <DIR>          .git
                0 File(s)                0 bytes
                3 Dir(s) 27,711,852,544 bytes free

C:\Users\USER\GitDemo>echo "Welcome to GitDemo" > welcome.txt
```

```
C:\Users\USER\GitDemo>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)
```

```
C:\Users\USER\GitDemo>git add welcome.txt
```

```
C:\Users\USER\GitDemo>git commit
```

```
hint: Waiting for your editor to close the file... notepad++ -multiInst
```

```
-notabbar -nosession -noPlugin: line 1: notepad++: command not found
```

```
error: there was a problem with the editor 'notepad++ -multiInst -notabbar -nosession -noPlugin'
```

```
Please supply the message using either -m or -F option.
```

```
C:\Users\USER\GitDemo>git commit -m "Initial commit: add welcome.txt"
```

```
[master (root-commit) b70d66c] Initial commit: add welcome.txt
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 welcome.txt
```

```
C:\Users\USER\GitDemo>git status
```

```
On branch master
```

```
nothing to commit, working tree clean
```

```
C:\Users\USER\GitDemo>git log --oneline
```

```
b70d66c (HEAD -> master) Initial commit: add welcome.txt
```

Step 4: Signup with GitLab and create a remote repository “GitDemo”

```
C:\Users\USER>git remote add origin https://gitlab.com/lpetchi2005-group/gitDemo.git
error: remote origin already exists.
```

```
C:\Users\USER>git branch -M main
```

```
C:\Users\USER>
```

```
C:\Users\USER\GitDemo>git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 335 bytes | 335.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://gitlab.com/lpetchi2005-group/gitDemo.git
   e605e2d..08c58d5  main -> main
branch 'main' set up to track 'origin/main'.
```

The screenshot displays the GitLab web interface for a repository named 'gitDemo' under the 'lpetchi2005-group'. A notification at the top states 'Profile was successfully updated'. The breadcrumb navigation shows 'main' and 'gitDemo / welcome.txt'. The file 'welcome.txt' is selected, showing its initial commit: 'Initial commit: add welcome.txt' by 'PETCHIVARADHAN L' 13 minutes ago, with commit hash '08c58d51'. The file content is displayed as follows:

```
1 "Welcome to GitDemo"
2
```

The left sidebar contains navigation links: Project (gitDemo), Learn GitLab (8%), Pinned, Issues (0), Merge requests (0), Manage, Plan, Code, Build, Secure, Deploy, What's new (5), and Help.