

1. Git-HOL

Step 1: Setup your machine with Git Configuration

```
MINGW64:/c/Users/ADMIN
$ git version
git version 2.46.2.windows.1

ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ git config --global user.name "Kasthuri Ram"

ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ git config --global user.email "kasthuriram116@gmail.com"

ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ git config --global --list
user.name=Kasthuri Ram
user.email=kasthuriram116@gmail.com
```

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

```
MINGW64:/c/Users/ADMIN

ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ notepad++

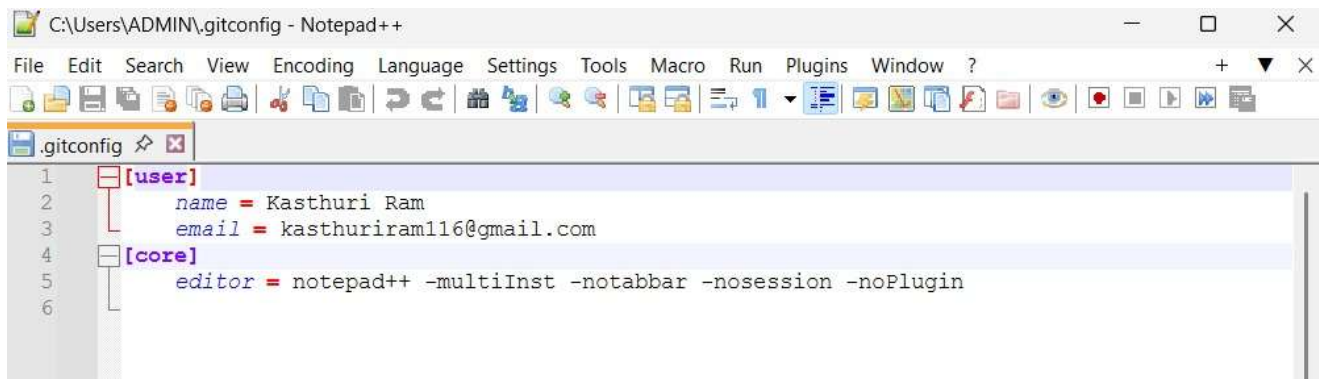
ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ notepad++

ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ git config --global core.editor "notepad++ -multiInst -notabbar -nosession -no
Plugin"

ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ git config --global core.editor
notepad++ -multiInst -notabbar -nosession -noPlugin

ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ git config --global --list
user.name=Kasthuri Ram
user.email=kasthuriram116@gmail.com
core.editor=notepad++ -multiInst -notabbar -nosession -noPlugin

ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ git config --global -e
hint: Waiting for your editor to close the file...
```



```
C:\Users\ADMIN\.gitconfig - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
[.gitconfig]
1 [user]
2   name = Kasthuri Ram
3   email = kasthuriram116@gmail.com
4 [core]
5   editor = notepad++ -multiInst -notabbar -nosession -noPlugin
6
```

Step 3: Add a file to source code repository

```
ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ mkdir ~/GitDemo

ADMIN@DESKTOP-OUB4RGS MINGW64 ~ (master)
$ cd ~/GitDemo

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ git init
Initialized empty Git repository in C:/Users/ADMIN/GitDemo/.git/

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ ls -la
total 32
drwxr-xr-x 1 ADMIN 197121 0 Aug  9 23:18 ./
drwxr-xr-x 1 ADMIN 197121 0 Aug  9 23:18 ../
drwxr-xr-x 1 ADMIN 197121 0 Aug  9 23:18 .git/

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ echo "Welcome to GitDemo" > welcome.txt

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ cat welcome.txt
Welcome to GitDemo

ADMIN@DESKTOP-OUB4RGS 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)

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ git add welcome.txt
warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the n
ext time Git touches it

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ git commit
hint: Waiting for your editor to close the file... |
```

```
ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ git commit
Aborting commit due to empty commit message.

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ git commit -m "Initial commit: add welcome.txt"
[master (root-commit) 7b4f7fe] Initial commit: add welcome.txt
1 file changed, 1 insertion(+)
create mode 100644 welcome.txt

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ |
```

```
ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ git status
On branch master
nothing to commit, working tree clean

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ git log --oneline
7b4f7fe (HEAD -> master) Initial commit: add welcome.txt

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (master)
$ |
```

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

```
ADMIN@DESKTOP-OUB4RG5 MINGW64 ~/GitDemo (master)
$ git remote add origin https://gitlab.com/kasthuriram116-group/gitdemo.git

ADMIN@DESKTOP-OUB4RG5 MINGW64 ~/GitDemo (master)
$ git branch -M main
```

```
ADMIN@DESKTOP-OUB4RG5 MINGW64 ~/GitDemo (main)
$ git add welcome.txt

ADMIN@DESKTOP-OUB4RG5 MINGW64 ~/GitDemo (main)
$ git commit
On branch main
nothing to commit, working tree clean

ADMIN@DESKTOP-OUB4RG5 MINGW64 ~/GitDemo (main)
$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 556 bytes | 556.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://gitlab.com/kasthuriram116-group/gitdemo.git
   4907001..64b0efa  main -> main
branch 'main' set up to track 'origin/main'.

ADMIN@DESKTOP-OUB4RG5 MINGW64 ~/GitDemo (main)
$
```

