

## GIT - Handson 1

### Step 1: Setup your machine with Git Configuration

#### 1. Git Version

```
brave@Thiru?? MINGW64 /  
$ git --version  
git version 2.47.1.windows.2
```

#### 2. Configure of User ID & Email ID

```
brave@Thiru?? MINGW64 /  
$ git config --global user.name "Thiru-Buvan"  
  
brave@Thiru?? MINGW64 /  
$ git config --global user.email "thirubuvan17@gmail.com"
```

#### 3. Check the Configuration is properly set

```
brave@Thiru?? MINGW64 /  
$ git config --global --list  
core.editor="C:\Program Files\Microsoft VS Code\bin\code" --wait  
core.autocrlf=true  
user.email=thirubuvan17@gmail.com  
user.name=Thiru-Buvan
```

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

#### 1. Execute and create an alias command for notepad++.exe

```
brave@Thiru?? MINGW64 /  
$ notepad++  
  
brave@Thiru?? MINGW64 /  
$ notepad++.exe bash -profile
```

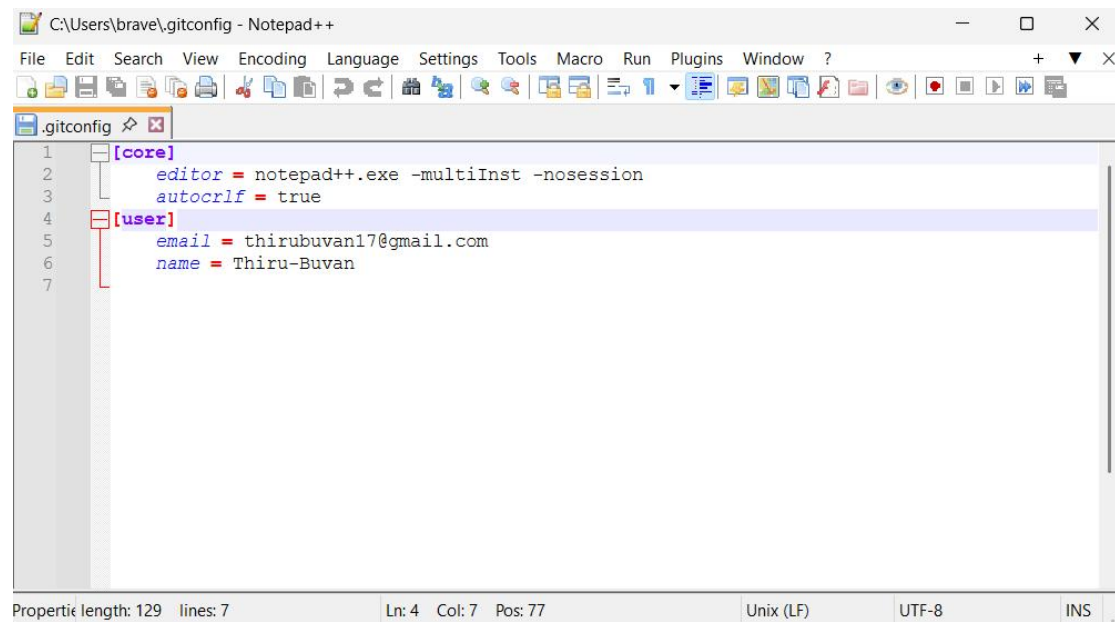
#### 2. Configure the editor

```
brave@Thiru?? MINGW64 /  
$ git config --global core.editor "notepad++.exe -multiInst -nosession"
```

### 3. Verify if notepad++ is the default editor

```
brave@Thiru?? MINGW64 /  
$ git config --global -e  
hint: Waiting for your editor to close the file...
```

Editor will open



### Step 3: Add a file to source code repository

#### 1. Creating a new project "GitDemo" repo

```
brave@Thiru?? MINGW64 /s  
$ git init GitDemo  
Initialized empty Git repository in S:/GitDemo/.git/
```

#### 2. Verifying the "GitDemo" repo

```
brave@Thiru?? MINGW64 /s/GitDemo (master)  
$ ls -al  
total 16  
drwxr-xr-x 1 brave 197609 0 Aug  9 14:23 ./  
drwxr-xr-x 1 brave 197609 0 Aug  9 14:23 ../  
drwxr-xr-x 1 brave 197609 0 Aug  9 14:23 .git/
```

Displaying all the hidden files in the Git

### 3. Creating & Adding content to a file "welcome.txt"

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ echo "Welcome to the Version control" >> welcome.txt
```

### 4. Verifying the file was created "welcome.txt"

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ ls -al
total 17
drwxr-xr-x 1 brave 197609  0 Aug  9 14:26 ./
drwxr-xr-x 1 brave 197609  0 Aug  9 14:23 ../
drwxr-xr-x 1 brave 197609  0 Aug  9 14:23 .git/
-rw-r--r-- 1 brave 197609 31 Aug  9 14:26 welcome.txt
```

### 5. Verifying the content in that file

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ cat welcome.txt
Welcome to the Version control
```

### 6. Checking the status

```
brave@Thiru?? MINGW64 /s/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)
```

### 7. Making the file to be tracked by Git repository

```
brave@Thiru?? MINGW64 /s/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
```

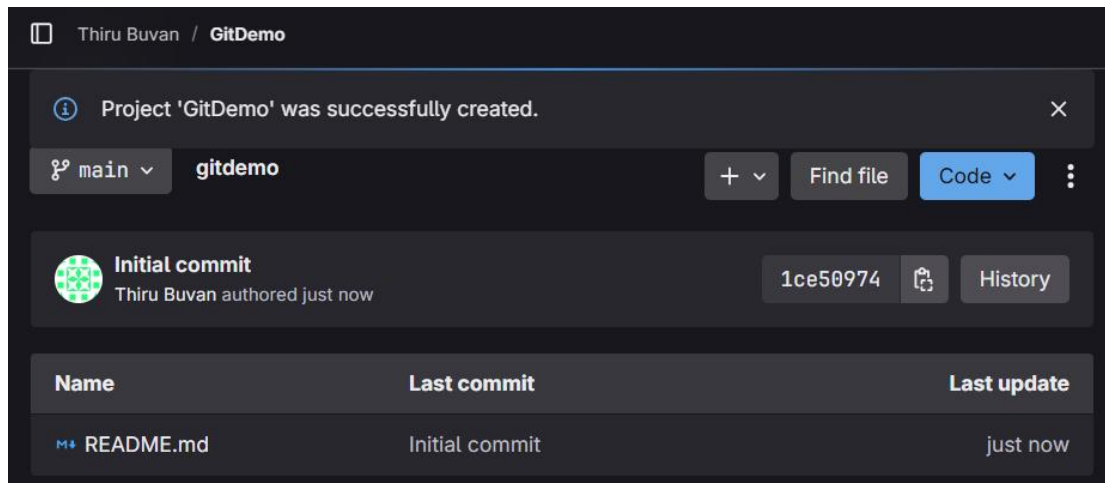
### 8. Commit

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git commit
[master (root-commit) afe80b1] Added welcome.txt file
1 file changed, 1 insertion(+)
create mode 100644 welcome.txt
```

9. Checking if local and “Working Directory” git repository are same

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git status
On branch master
nothing to commit, working tree clean
```

10. Signup with GitLab and create a remote repository “GitDemo”



The screenshot shows the GitLab web interface for a newly created repository named 'GitDemo'. At the top, a notification states: 'Project 'GitDemo' was successfully created.' Below this, the repository name 'gitdemo' is displayed next to a 'main' branch selector. A button labeled 'Code' is visible. The 'Initial commit' section shows 'Thiru Buvan authored just now' with a commit hash '1ce50974' and a 'History' link. Below this is a table listing the files in the repository.

Name	Last commit	Last update
README.md	Initial commit	just now

11. Pull the remote repository

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git pull origin master
From https://gitlab.com/thirubuvan17/gitdemo
* branch          master      -> FETCH_HEAD
Already up to date.
```

12. Push the local to remote repository

```
brave@Thiru?? MINGW64 /s/GitDemo (master)
$ git push origin master
Everything up-to-date
```