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Step 1: Setup your machine with Git Configuration

```
MINGW64:/c/Users/DCS

DCS@DESKTOP-6JG1GT5 MINGW64 ~
$ git version
git version 2.43.0.windows.1

DCS@DESKTOP-6JG1GT5 MINGW64 ~
$ git config --global user.name "jigneshsadu"

DCS@DESKTOP-6JG1GT5 MINGW64 ~
$ git config --global user.email "jigneshsadu@gmail.com"

DCS@DESKTOP-6JG1GT5 MINGW64 ~
$ git config --global --list
user.name=jigneshsadu
user.email=jigneshsadu@gmail.com
core.editor=notepad++.exe -multiInst -nosession

DCS@DESKTOP-6JG1GT5 MINGW64 ~
$
```

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

1. To check, if notepad++.exe execute from Git bash

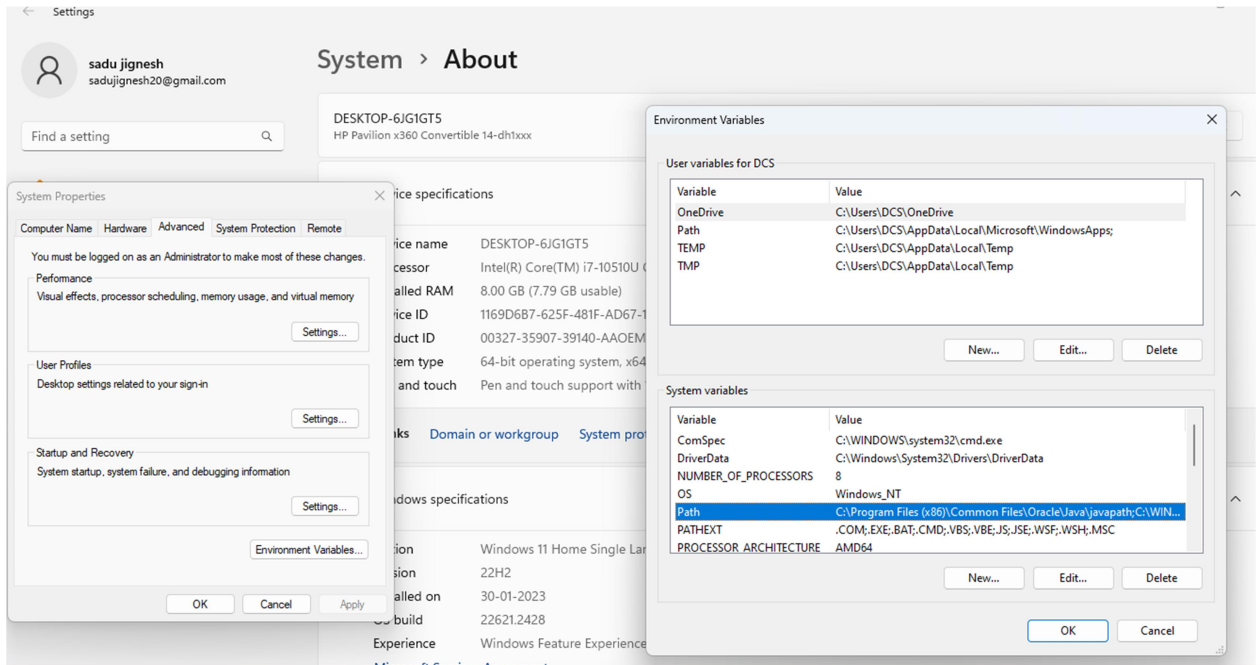
```
MINGW64:/c/Users/DCS

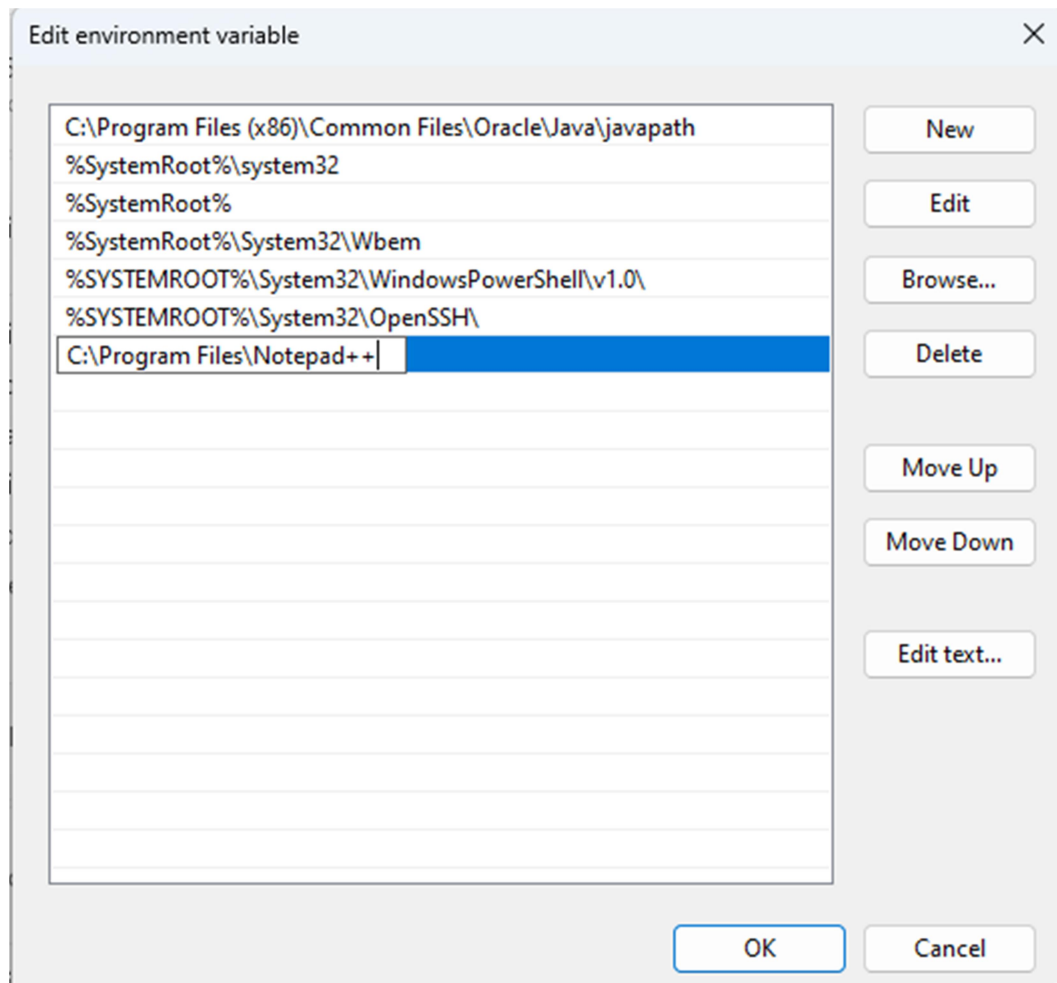
DCS@DESKTOP-6JG1GT5 MINGW64 ~
$ notepad++
bash: notepad++: command not found

DCS@DESKTOP-6JG1GT5 MINGW64 ~
$
```

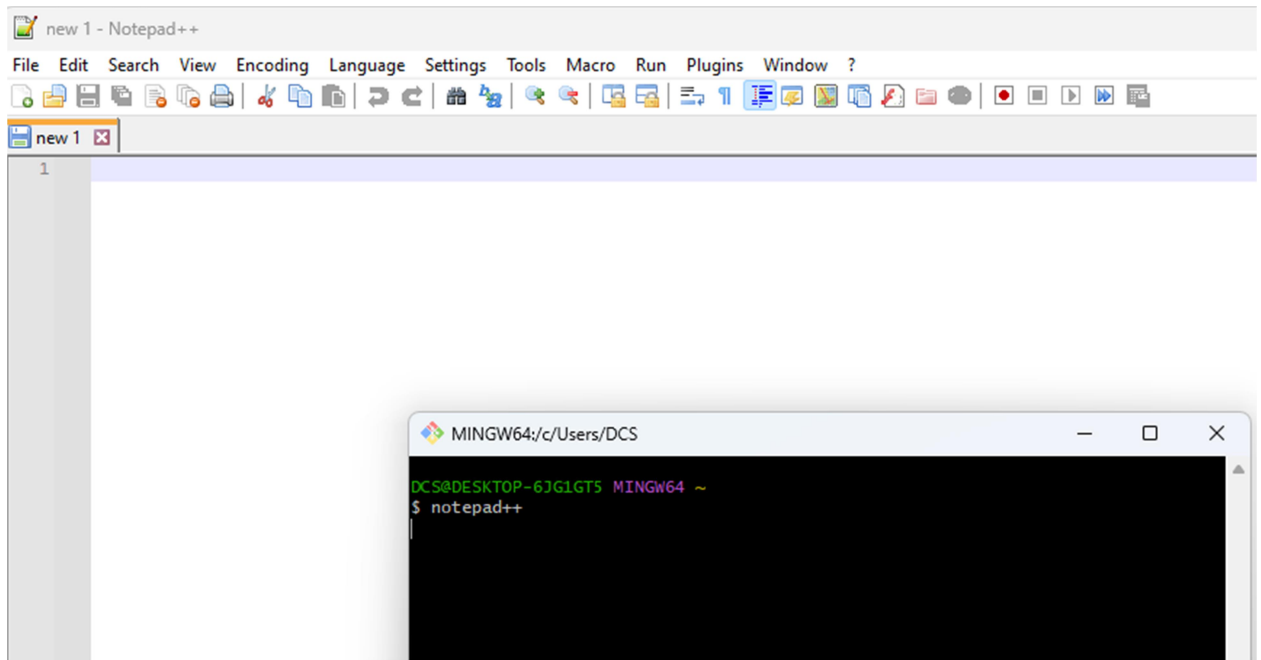
If Git bash could not able to recognize notepad++ command that implies notepad++.exe is not added to the environment path variable.

To add path of notepad++.exe to environment variable, go to control panel -> System -> Advanced System settings. Go to Advanced tab -> Environment variables -> Add path of notepad++.exe to the path user variable by clicking on “Edit”



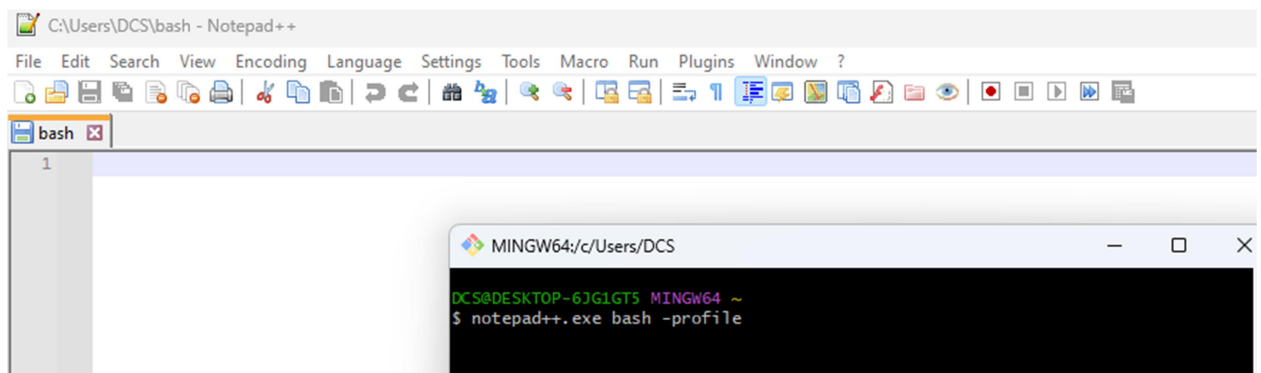


2. Exit Git bash shell, open bash shell and execute

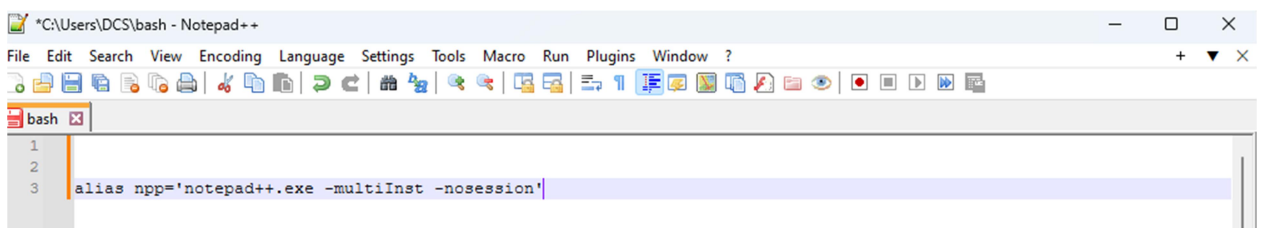


Now, notepad++ will open from Git bash shell

3. To create an alias command for notepad++.exe, execute



It will open notepad++ from bash shell, and create a user profile by adding the line in notepad++



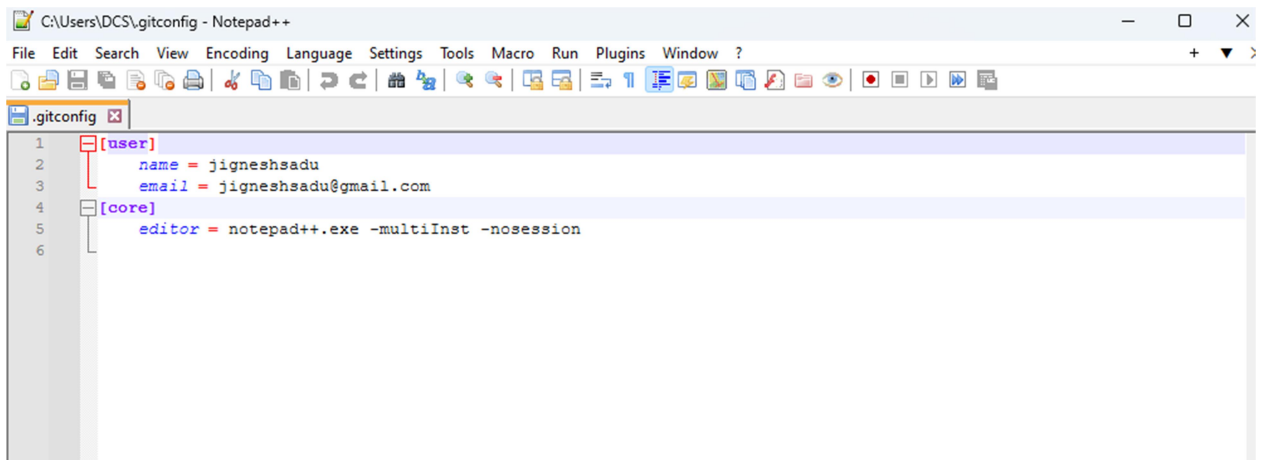
4. To configure the editor, execute the command
5. To verify if notepad++ is the default editor, execute the command

```
MINGW64/c/Users/DCS
DCS@DESKTOP-6JG1GT5 MINGW64 ~
$ git config --global core.editor 'notepad++.exe -multiInst -nosession'

DCS@DESKTOP-6JG1GT5 MINGW64 ~
$ git config --global -e
hint: Waiting for your editor to close the file... |
```

Here ‘-e’ option implies editor

It will show the entire global configuration as shown below,



The screenshot shows a Notepad++ window titled 'C:\Users\DCS\.gitconfig - Notepad++'. The menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Tools, Macro, Run, Plugins, Window, and ?. The toolbar contains various icons for file operations. The main text area shows the content of the .gitconfig file:

```
1 [user]
2   name = jigneshsadu
3   email = jigneshsadu@gmail.com
4 [core]
5   editor = notepad++.exe -multiInst -nosession
6
```

Step 3: Add a file to source code repository

1. Open Git bash shell and create a new project “**GitDemo**” by executing the command
2. Git bash initializes the “**GitDemo**” repository. To verify, execute the command It will display all the hidden files in the Git “working directory”.
3. To create a file “**welcome.txt**” and add content to the file, execute the command
4. To verify if the file “welcome.txt” is created, execute
5. To verify the content, execute the command
6. Check the status by executing

Now the file “**welcome.txt**” is available in Git “working directory”

7. To make the file to be tracked by Git repository, execute the command
8. To add multi line comments, we are opening default editor to comment. Execute the command
Notepad++ editor will open and to add multi-line comment with default editor
9. To check if local and “Working Directory” git repository are same, execute git status

```
MINGW64:/d/GitDemo

DCS@DESKTOP-6JG1GT5 MINGW64 ~
$ cd /d

DCS@DESKTOP-6JG1GT5 MINGW64 /d
$ git init GitDemo
Reinitialized existing Git repository in D:/GitDemo/.git/

DCS@DESKTOP-6JG1GT5 MINGW64 /d
$ cd GitDemo

DCS@DESKTOP-6JG1GT5 MINGW64 /d/GitDemo (master)
$ ls -al
total 8
drwxr-xr-x 1 DCS 197609 0 Jan 20 19:17 ./
drwxr-xr-x 1 DCS 197609 0 Jan 20 19:17 ../
drwxr-xr-x 1 DCS 197609 0 Jan 20 19:18 .git/

DCS@DESKTOP-6JG1GT5 MINGW64 /d/GitDemo (master)
$ echo "welcome to the version control" >>welcome.txt

DCS@DESKTOP-6JG1GT5 MINGW64 /d/GitDemo (master)
$ ls -al
bash: ls-al: command not found

DCS@DESKTOP-6JG1GT5 MINGW64 /d/GitDemo (master)
$ ls -al
total 9
drwxr-xr-x 1 DCS 197609 0 Jan 20 19:19 ./
drwxr-xr-x 1 DCS 197609 0 Jan 20 19:17 ../
drwxr-xr-x 1 DCS 197609 0 Jan 20 19:18 .git/
-rw-r--r-- 1 DCS 197609 31 Jan 20 19:19 welcome.txt

DCS@DESKTOP-6JG1GT5 MINGW64 /d/GitDemo (master)
$ cat welcome.txt
welcome to the version control

DCS@DESKTOP-6JG1GT5 MINGW64 /d/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)
```

```
DCS@DESKTOP-6JG1GT5 MINGW64 /d/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
```

welcome.txt is added to the local repository.

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

11. To pull the remote repository, execute

git pull origin master

12. To push the local to remote repository, execute

git push origin master

```
DCS@DESKTOP-6JG1GT5 MINGW64 ~/jig/GitDemo2 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

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

DCS@DESKTOP-6JG1GT5 MINGW64 ~/jig/GitDemo2 (master)
$ git commit
[master 67c1860] edgveegeg
1 file changed, 1 insertion(+)
create mode 100644 welcome.txt

DCS@DESKTOP-6JG1GT5 MINGW64 ~/jig/GitDemo2 (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

DCS@DESKTOP-6JG1GT5 MINGW64 ~/jig/GitDemo2 (master)
$ git push origin master
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), 305 bytes | 305.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/jigneshsadu/GitDemo2.git
21b754f..67c1860 master -> master

DCS@DESKTOP-6JG1GT5 MINGW64 ~/jig/GitDemo2 (master)
$ git pull origin master
From https://github.com/jigneshsadu/GitDemo2
 * branch      master       -> FETCH_HEAD
Already up to date.

DCS@DESKTOP-6JG1GT5 MINGW64 ~/jig/GitDemo2 (master)
$
```