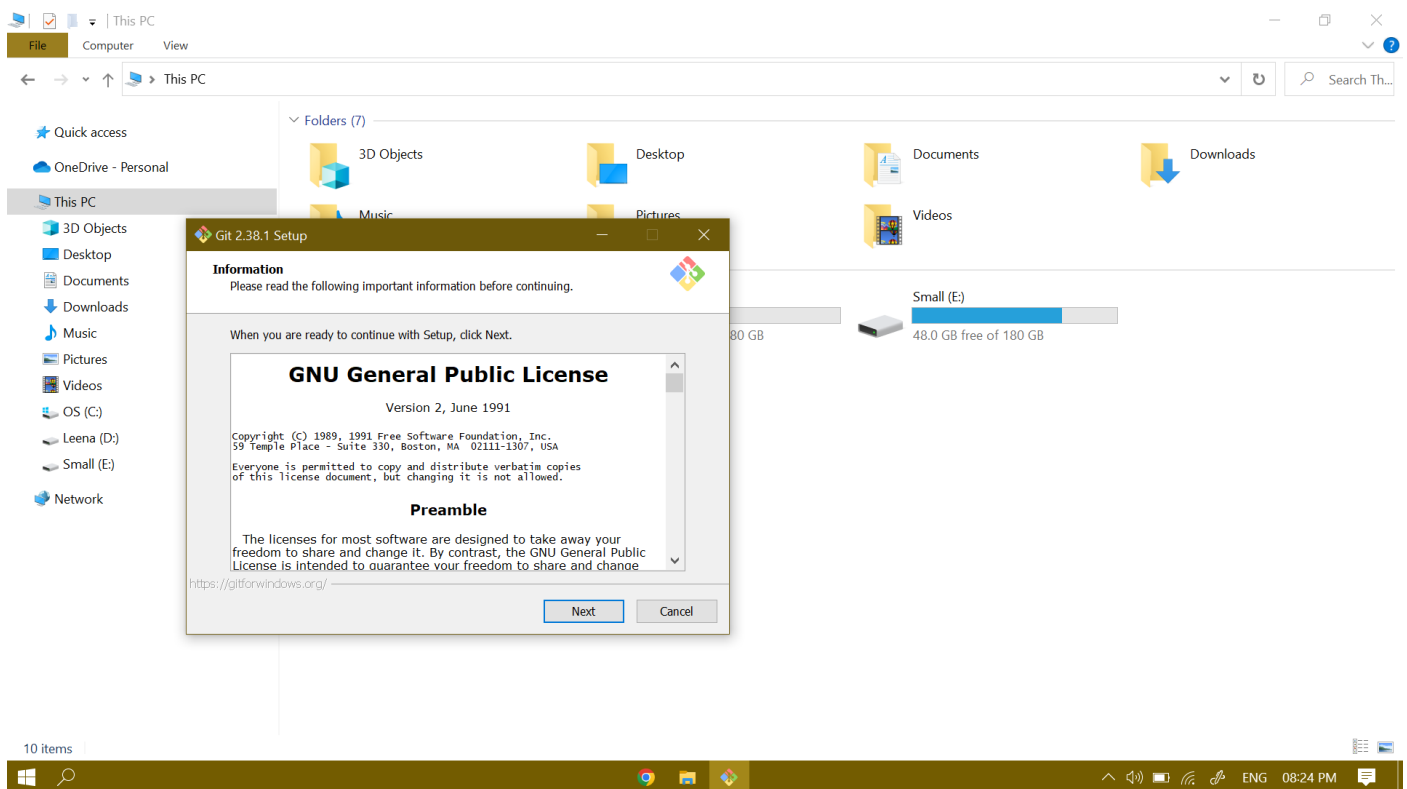
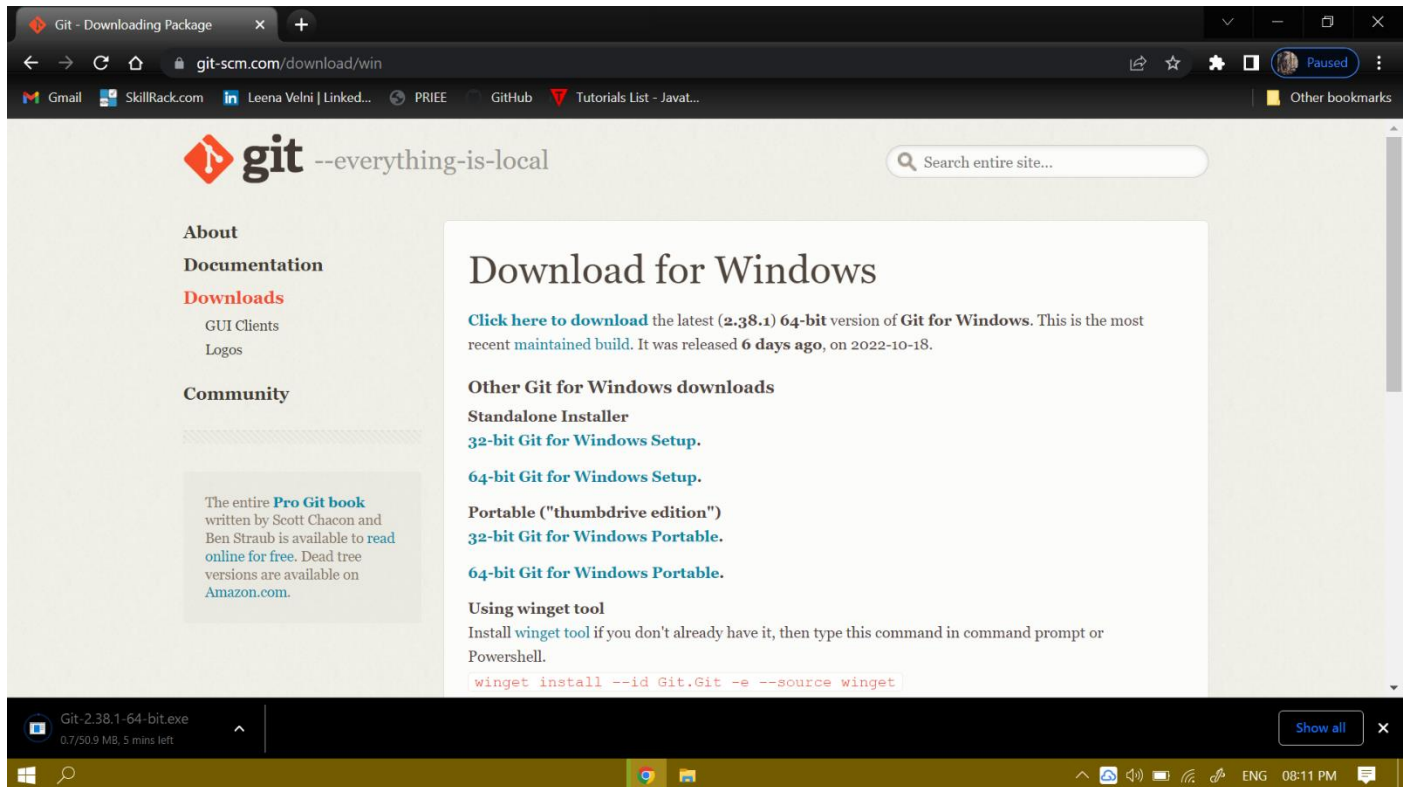
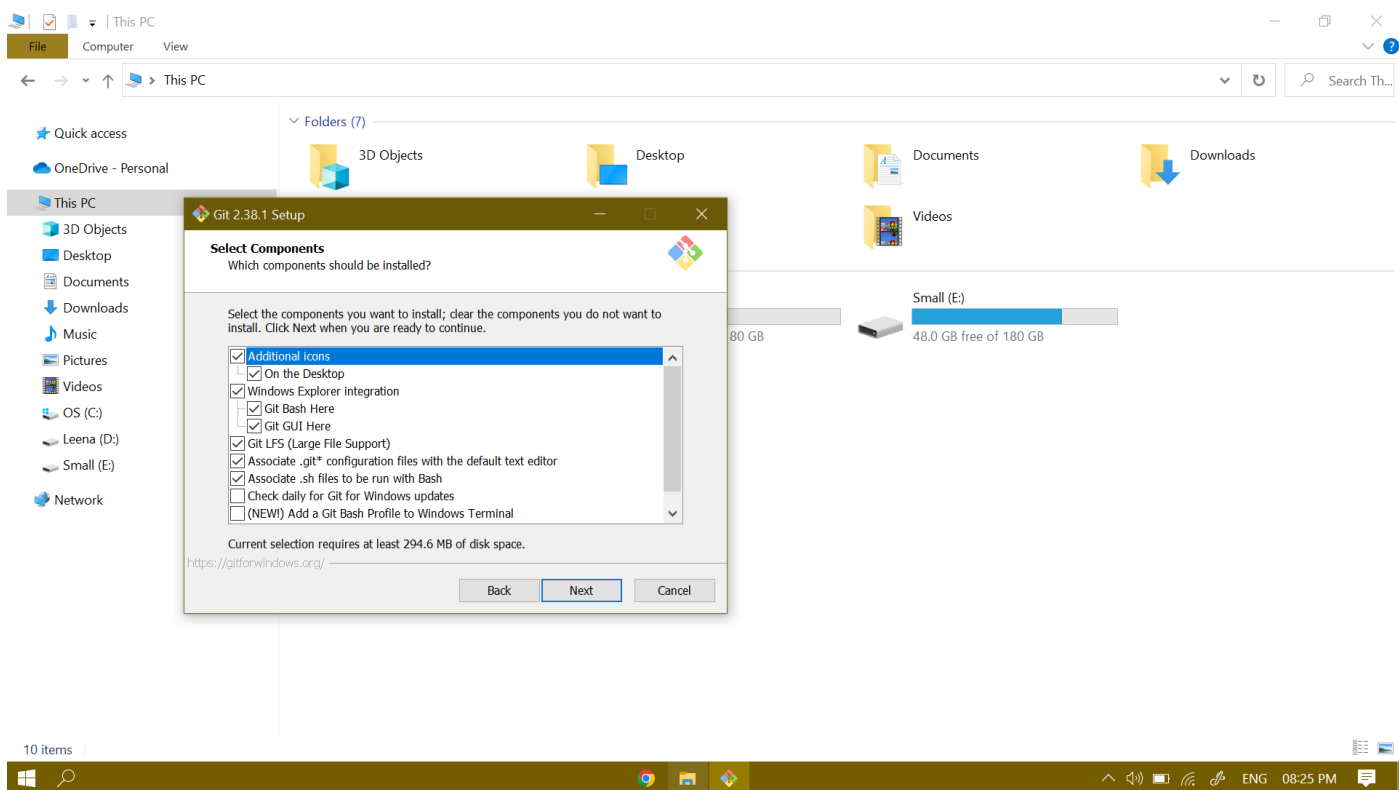
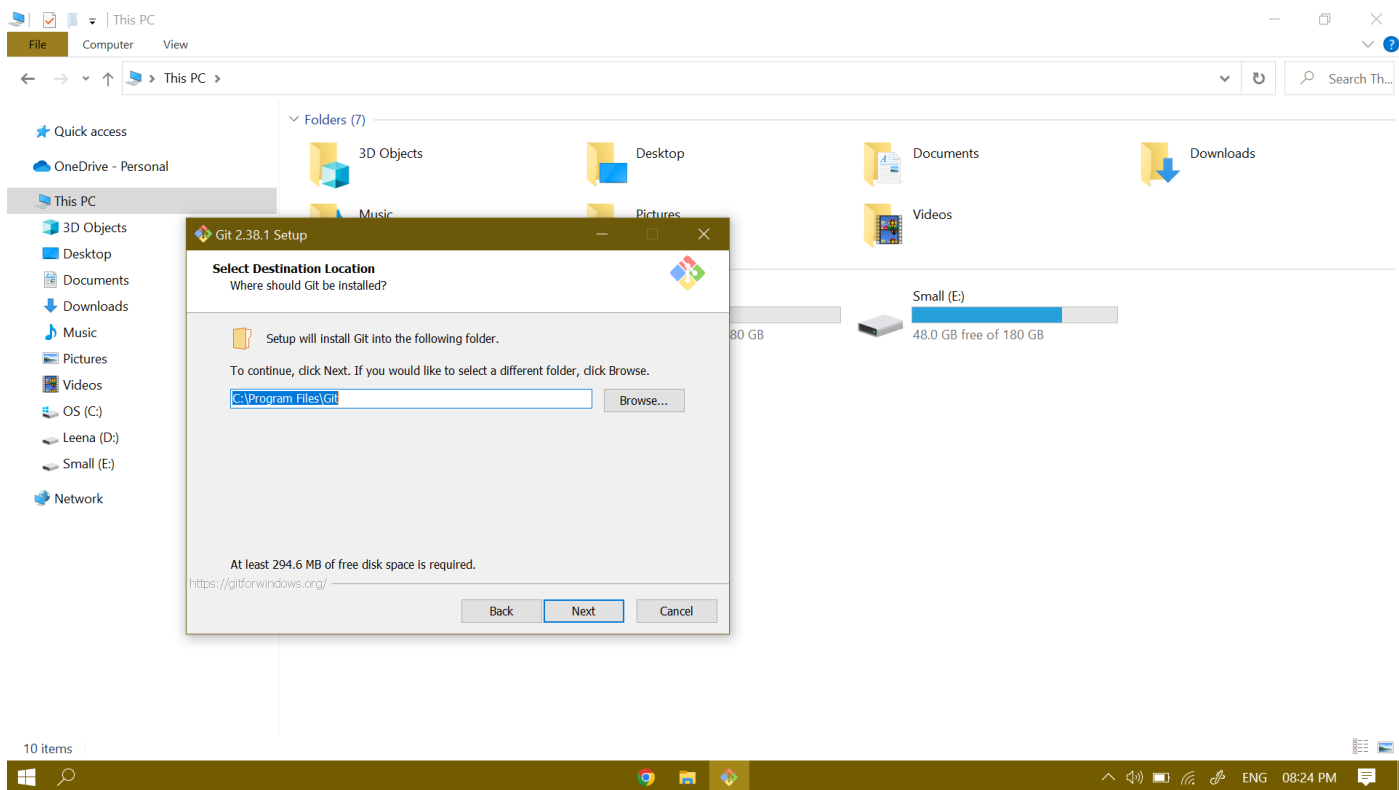


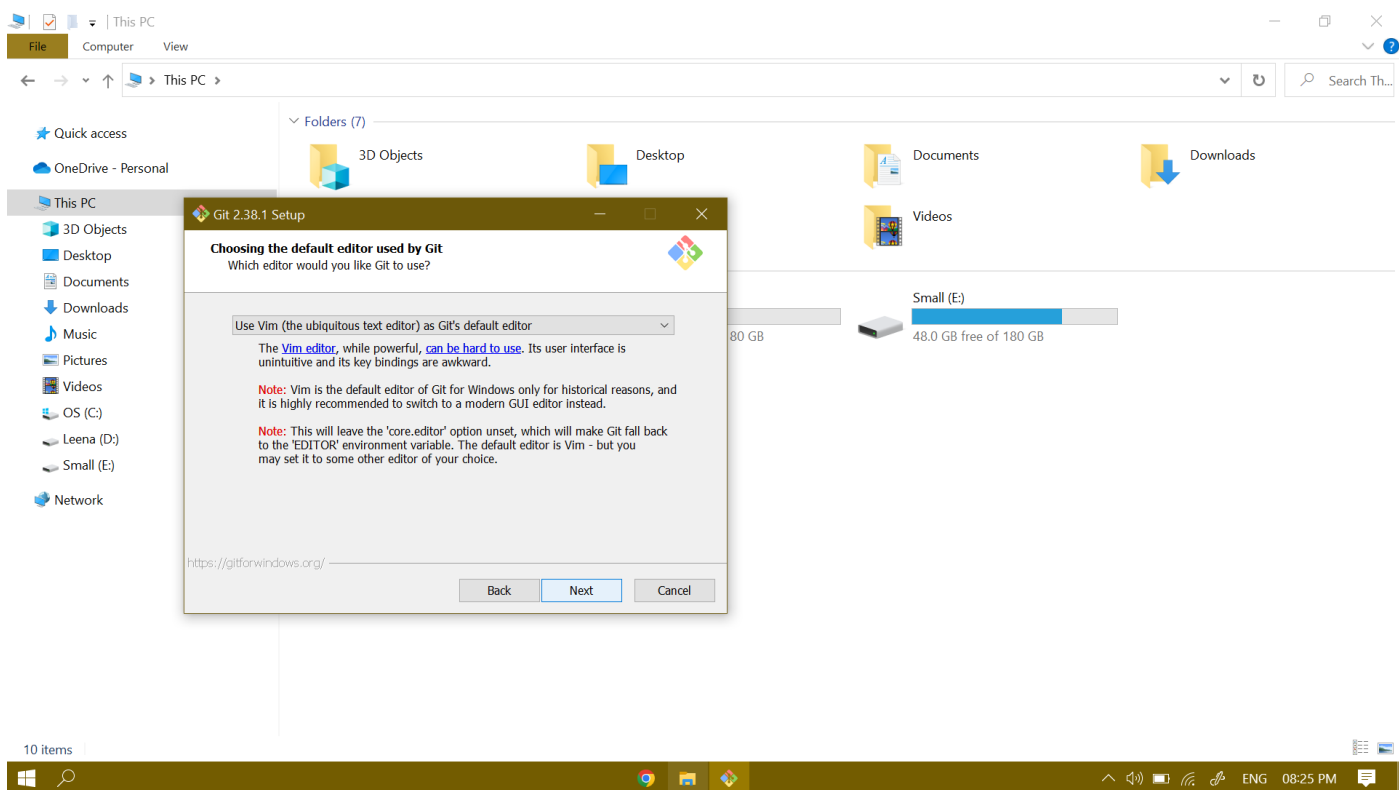
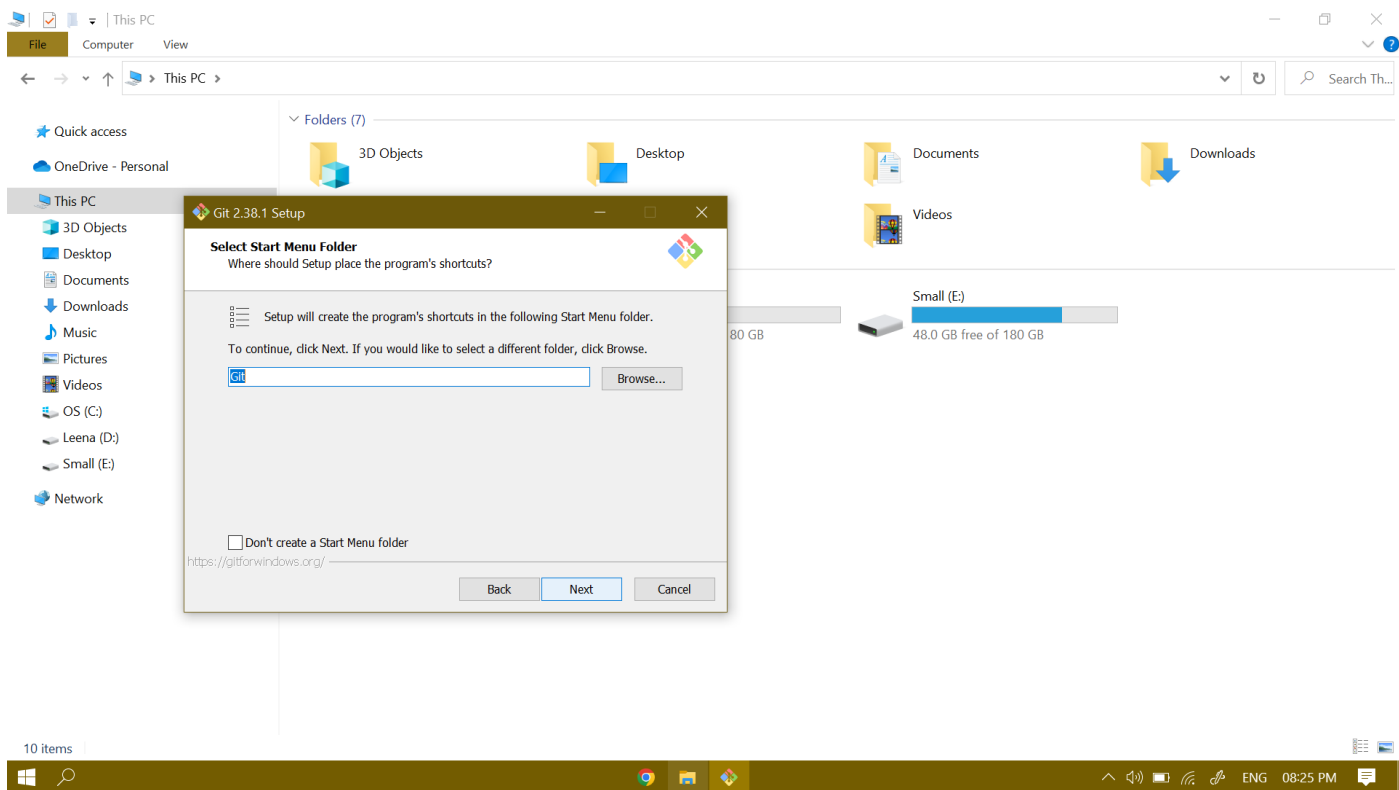
## EXERCISE : 2

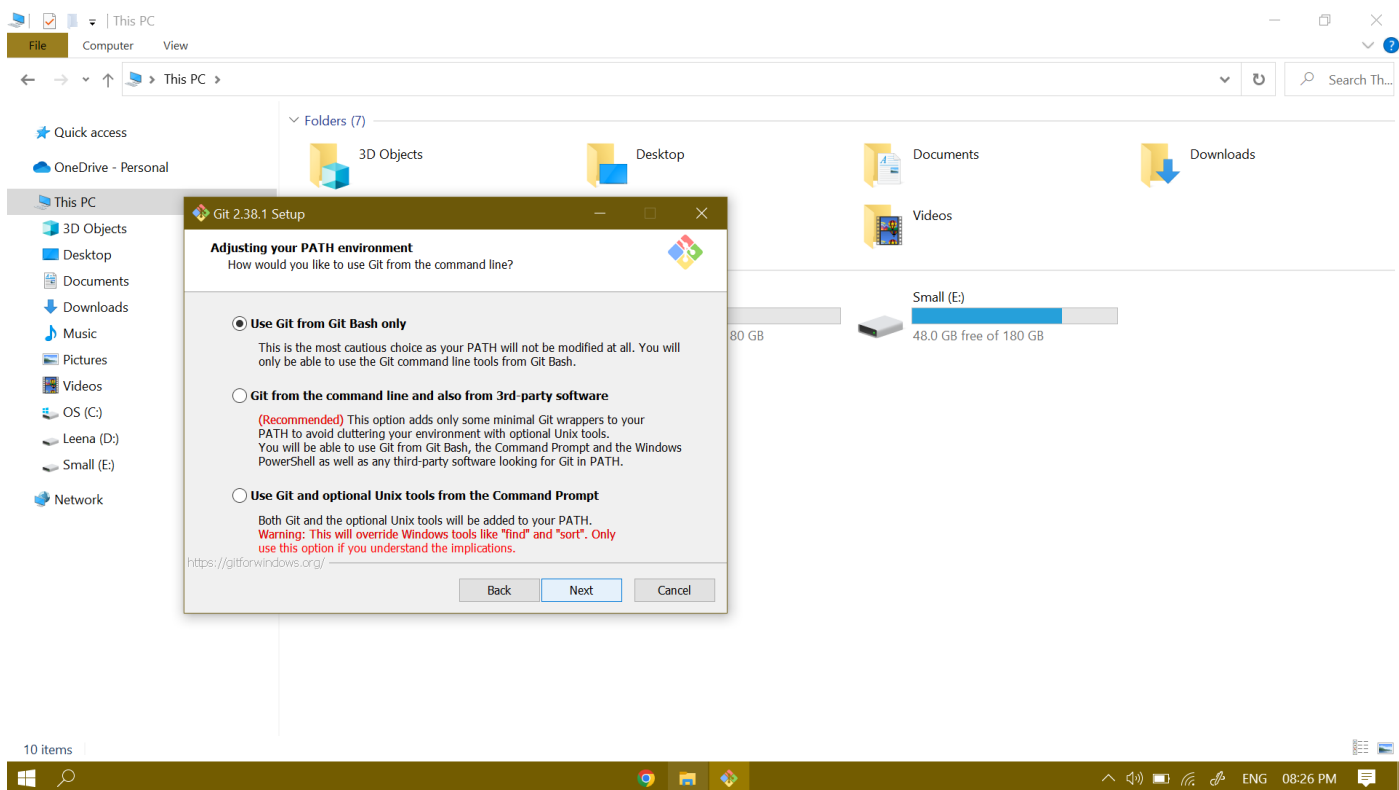
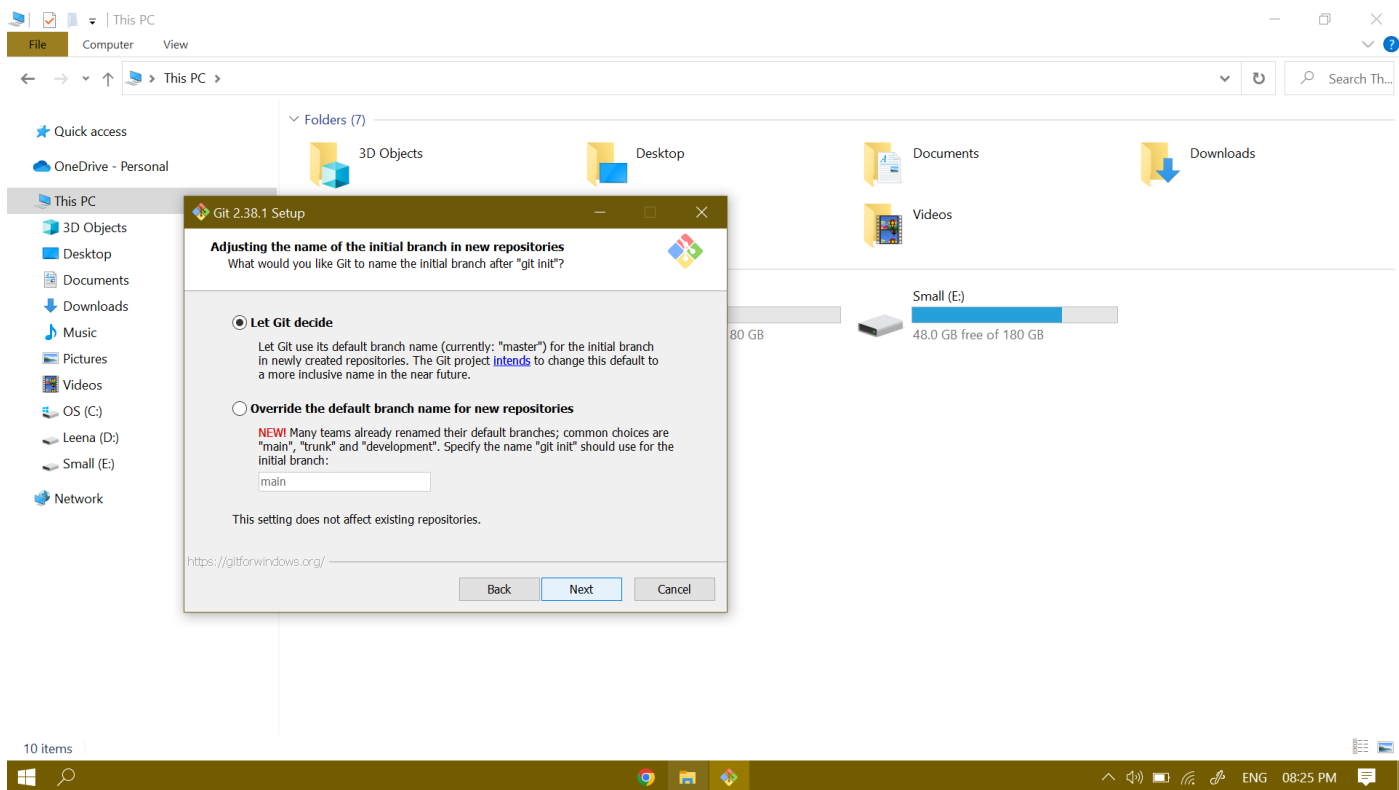
### Source code Management using GIT

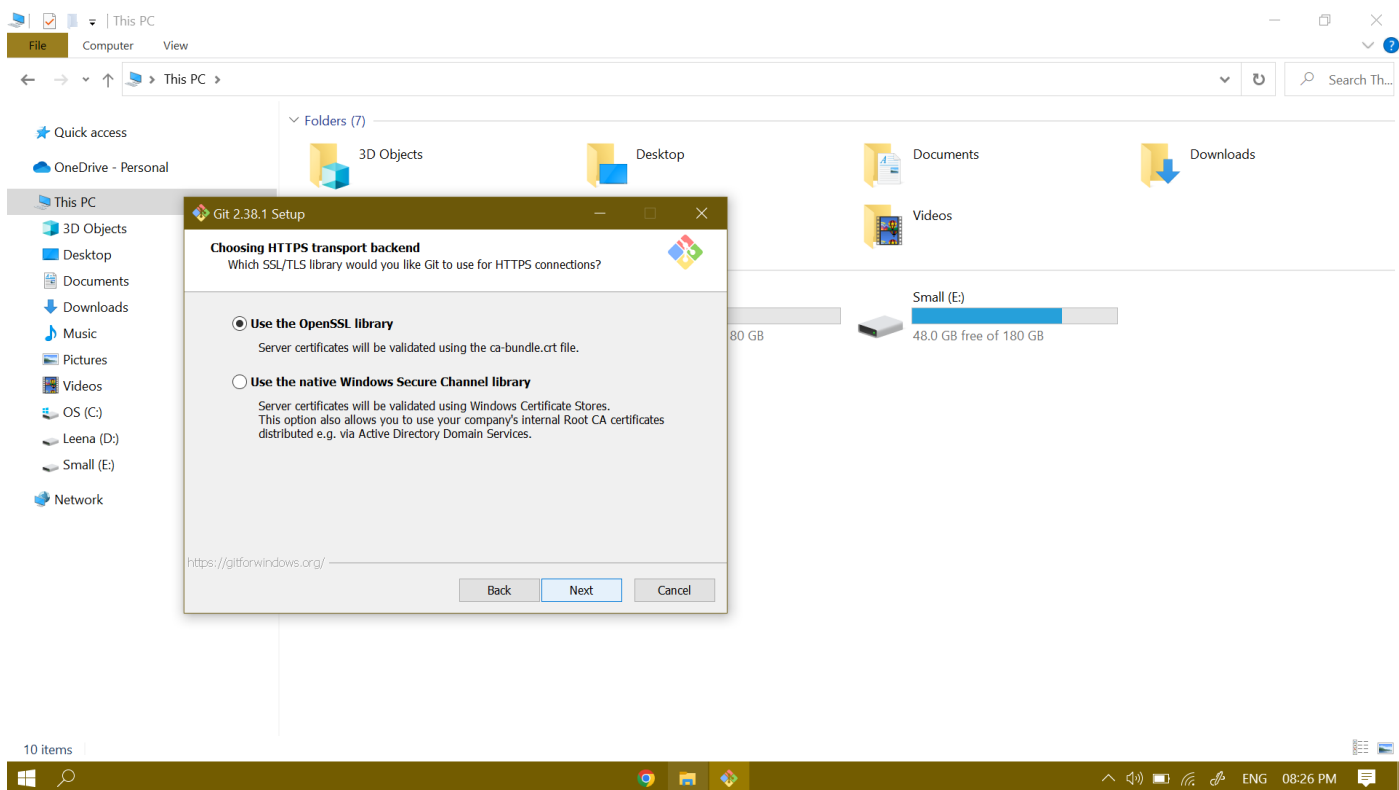
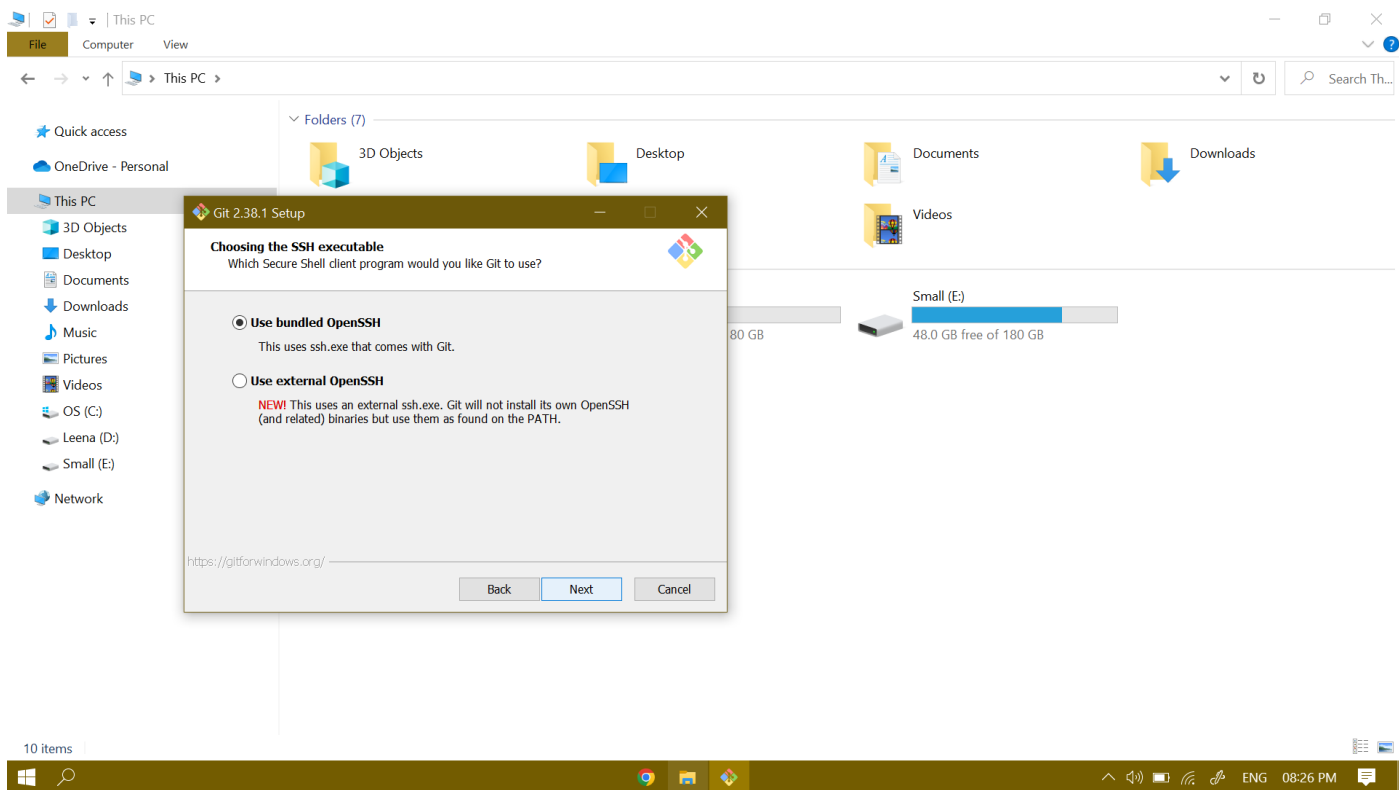
#### Screenshots:

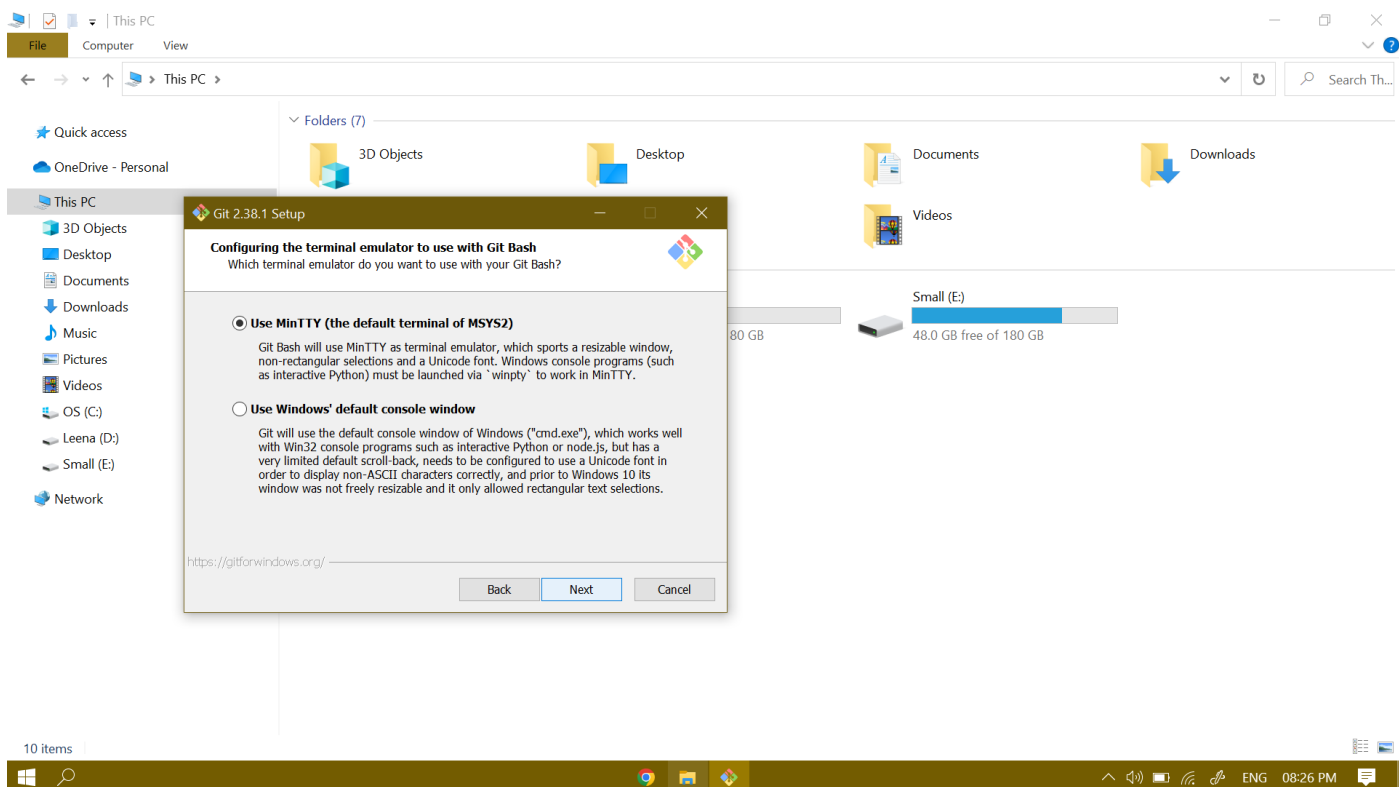
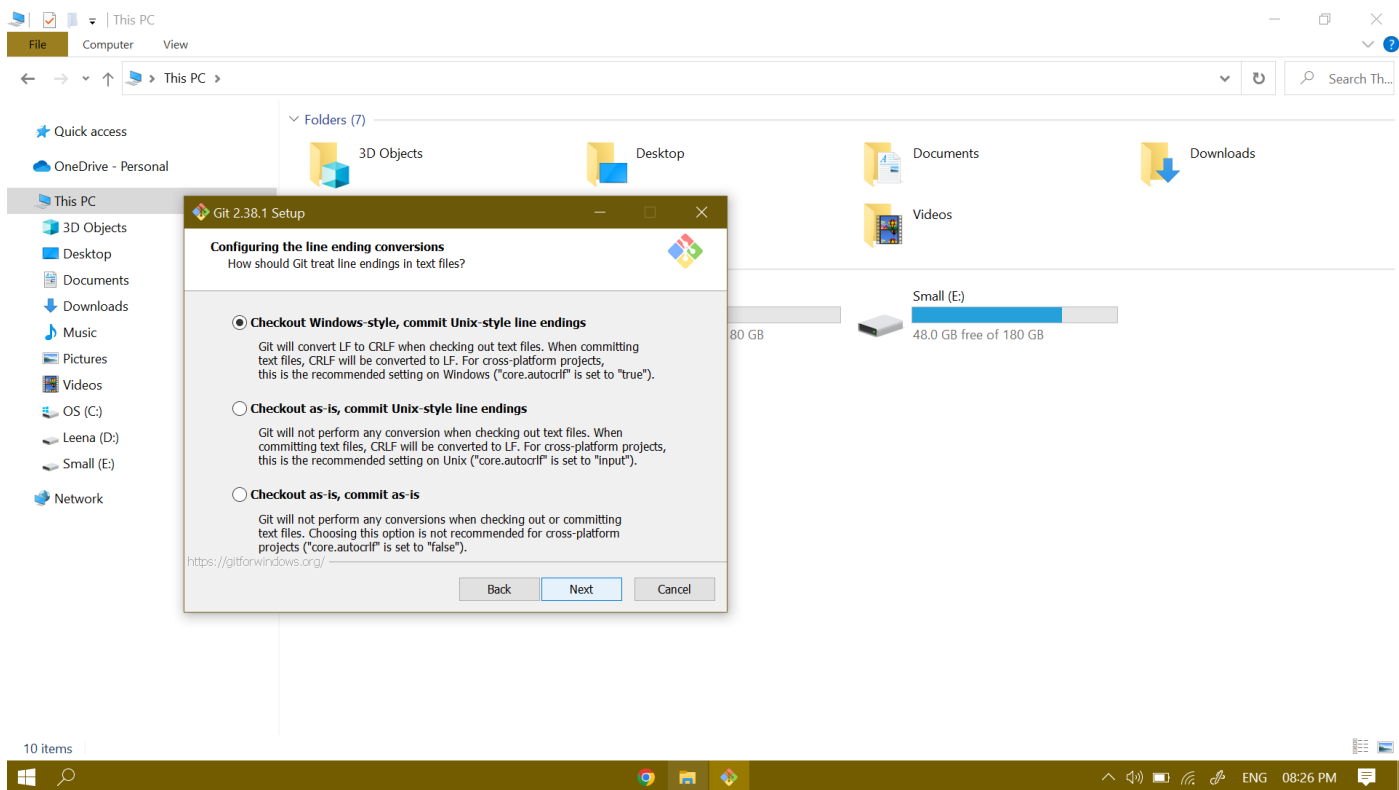


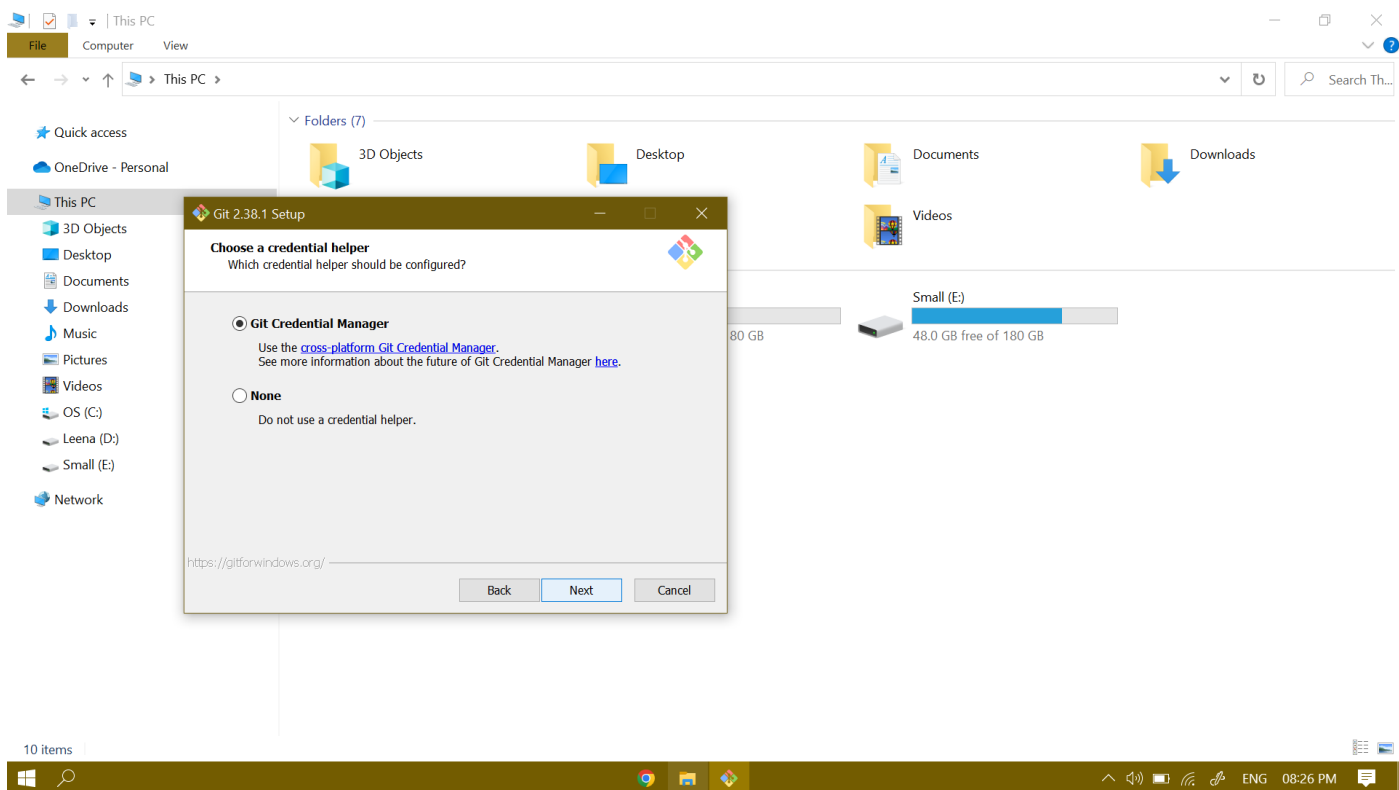
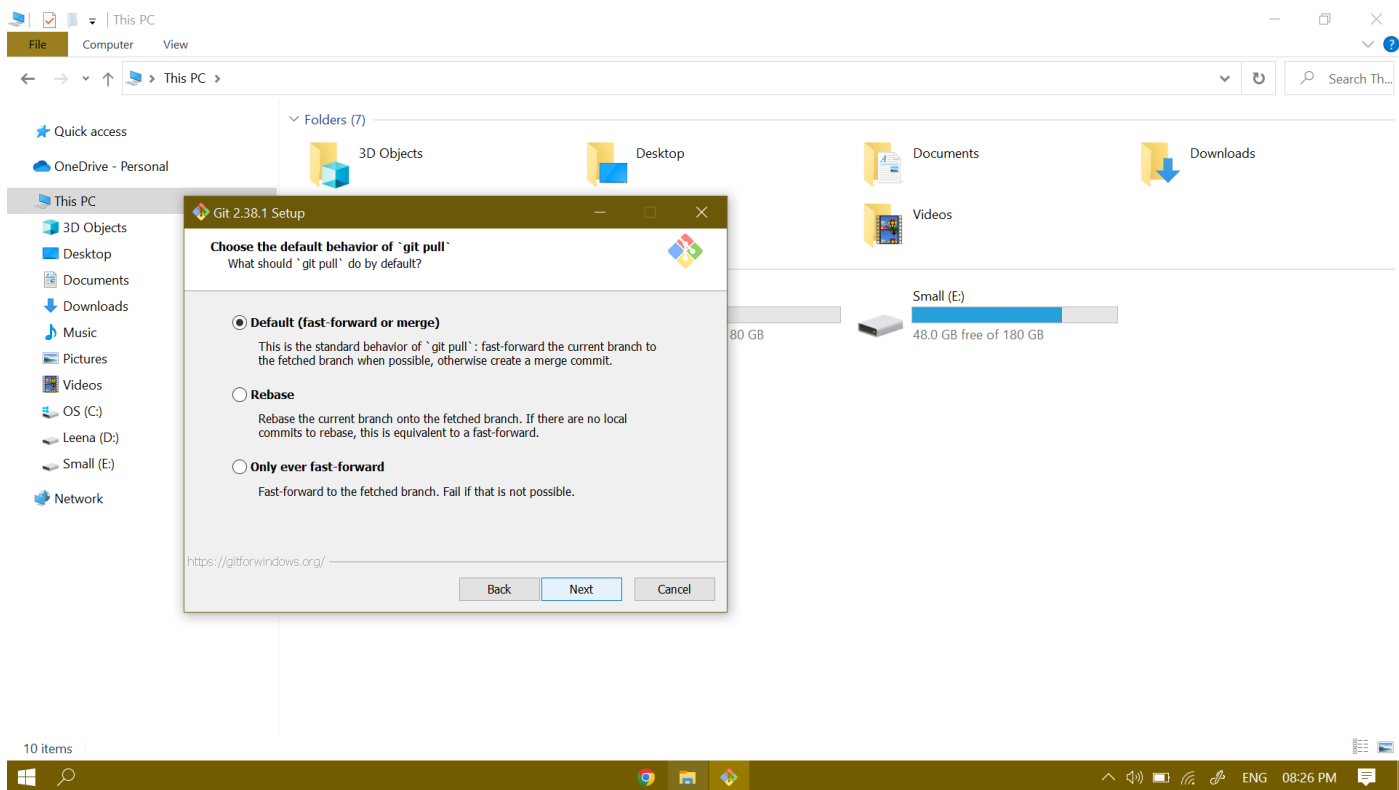


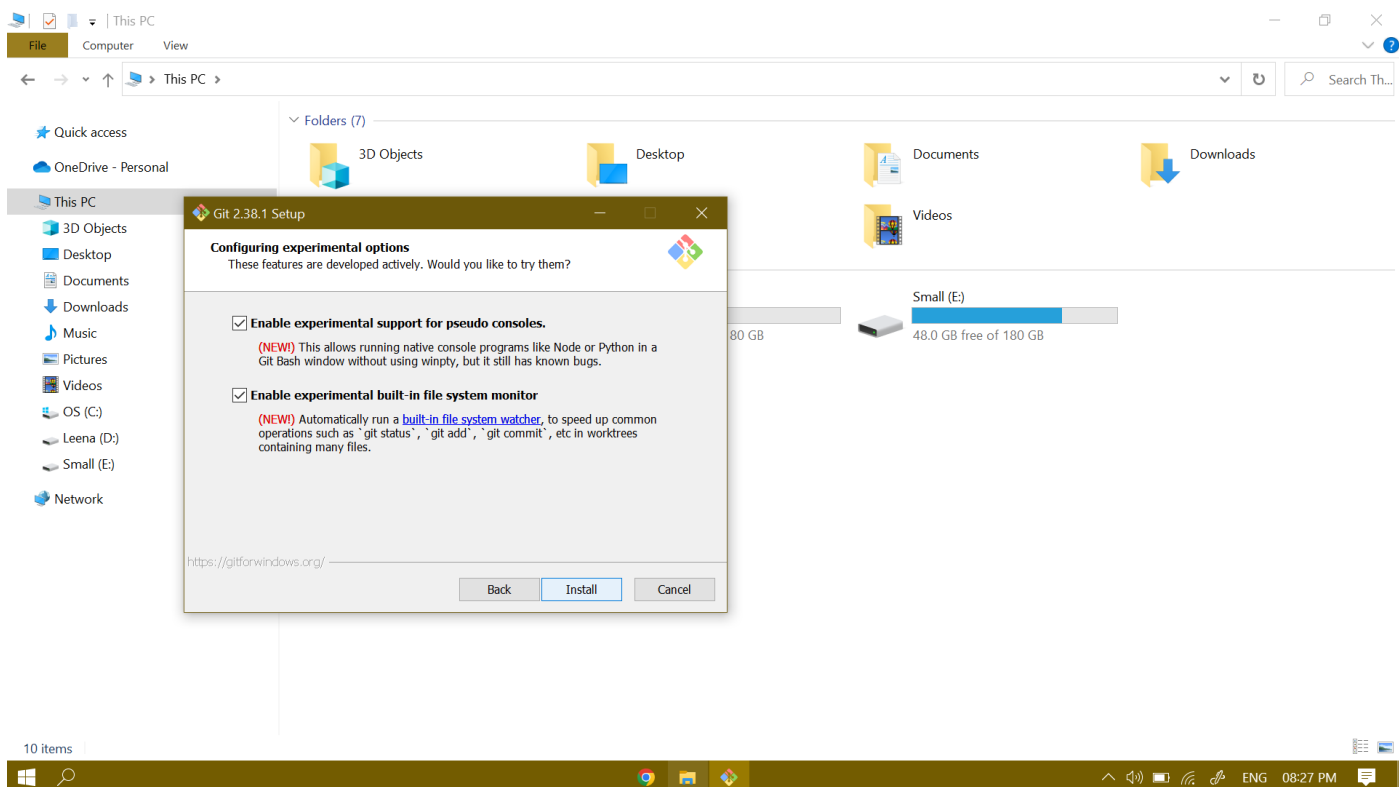
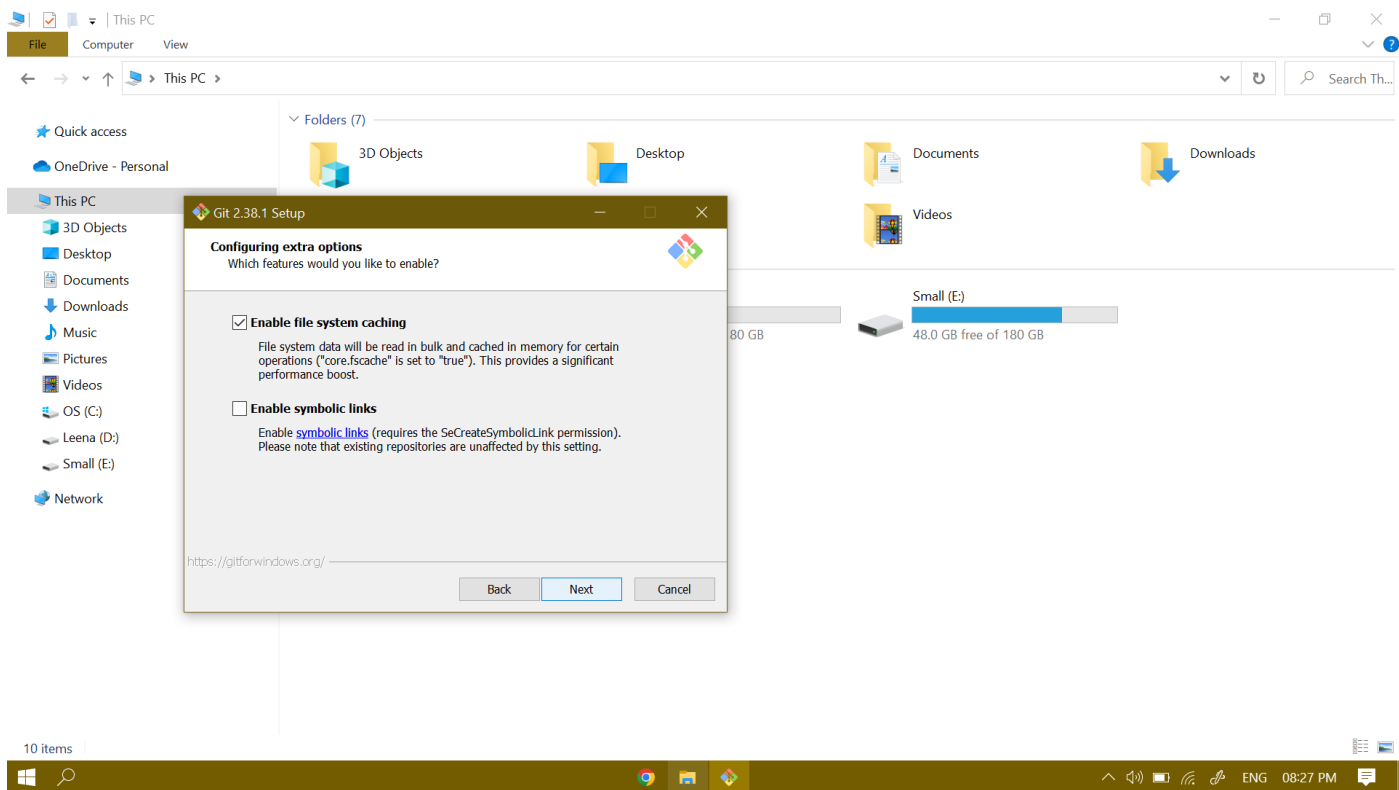




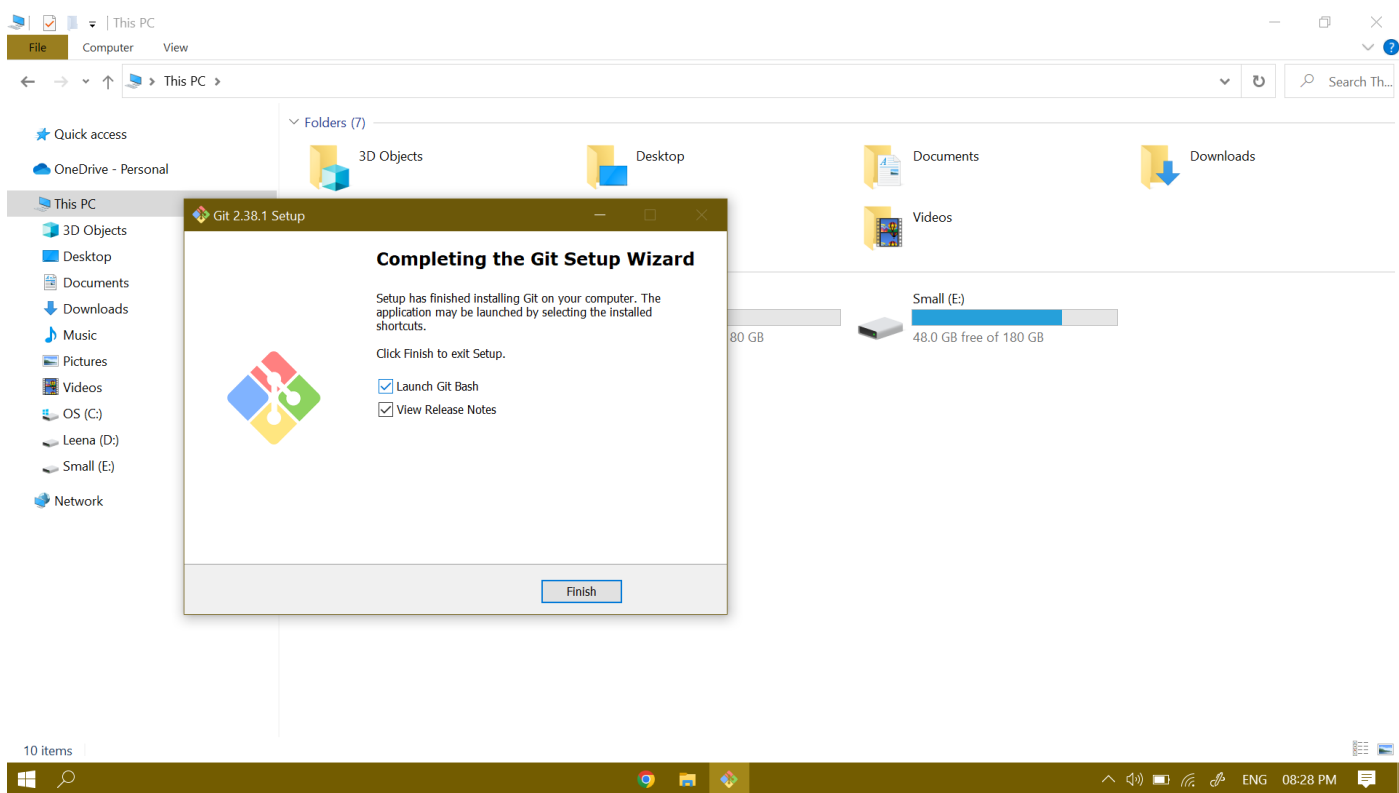
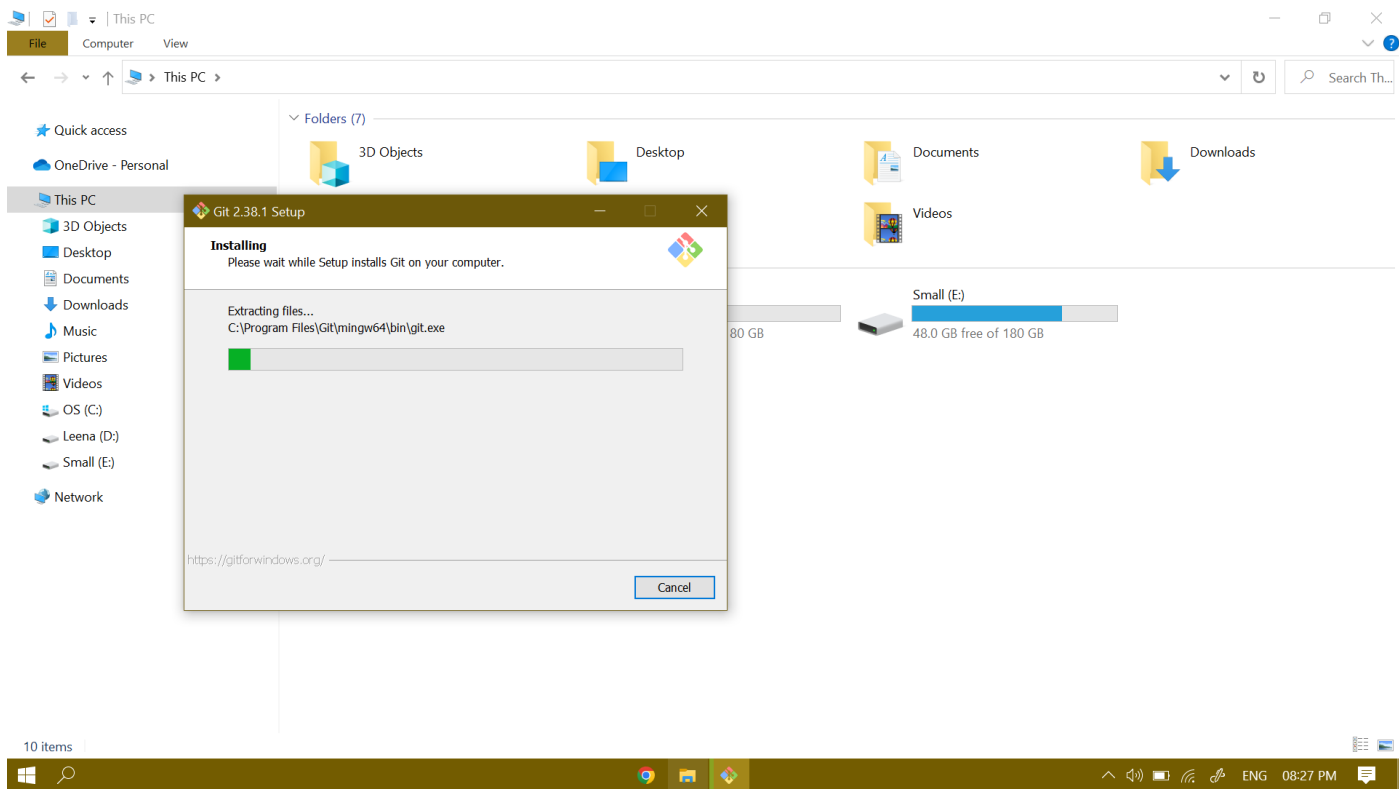












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# Git for Windows v2.38.1 Release Notes

Latest update: October 18th 2022

## Introduction

These release notes describe issues specific to the Git for Windows release. The release notes covering the history of the core git commands can be found [in the Git project](#).  
See <http://git-scm.com/> for further details about Git including ports to other operating systems. Git for Windows is hosted at <https://gitforwindows.org/>.

## Known issues

Should you encounter other problems, please first search [the bug tracker](#) (also look at the closed issues) and [the mailing list](#), chances are that the problem was reported already. Also make sure that you use an up to date Git for Windows version (or a [current snapshot build](#)). If it has not been reported, please follow [our bug reporting guidelines](#) and [report the bug](#).

MINGW64/c/Users/Leena

Google Chrome MSB

This PC NetBeans IDE 8.1

Recycle Bin Bitdefender

Outlook (PWA) WhatsApp

Git Bash

MINGW64/c/Users/Leena

```
MINGW64/c/Users/Leena

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~
$ |
```

```
MINGW64/c/Users/Leena/JavaProgram

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~
$ ls
-1.14-windows.xml      Links/
'3D Objects'/'         'Local Settings'@
AndroidStudioProjects/ MediaGet2/
AppData/               MicrosoftEdgeBackups/
AppMods/              Music/
'Application Data'@    'My Documents'@
'C Programs'/'         NTUSER.DAT
ChromeSetup.exe*       NTUSER.DAT{ea862cb2-3479-11eb-86ca-ff24cb21b99c}.TM.b1f
Contacts/'             NTUSER.DAT{ea862cb2-3479-11eb-86ca-ff24cb21b99c}.TMcontainer00000000000000000001.regtrans-ms
cookies@              NTUSER.DAT{ea862cb2-3479-11eb-86ca-ff24cb21b99c}.TMcontainer00000000000000000002.regtrans-ms
Desktop/              NetHood@
Documents/            ODBA/
Downloads/            OneDrive/
Favorites/            Pictures/
Game/                 PrintHood@
'Game Maze'/'         Recent@
GlassFish_Server/'   'Recorded Calls'/'
'Google Drive'/'      'Saved Games'/'

searches/
SendTo@
'Start Menu'@
Templates@
Videos/
edb_npgsql.exe
edb_pgjdbc.exe
edb_psqjdbc.e
edb_psqjdbc.e
greenfoot/
installbackupa
java_error_in_
ntuser.dat.LOG
ntuser.dat.LOG
ntuser.ini
venv/

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~
$ git config --global user.name "LeenaVelni"

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~
$ git config --global user.email "leenashree2001@gmail.com"
```



```
MINGW64/c/Users/Leena/JavaProgram
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram
$ export PATH=$PATH:"C:\Program Files\Java\jdk1.8.0_202\bin"

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram
$ javac Hello.java

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram
$ java Hello
Hello World from GIT!

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram
$ ls
Hello.class  Hello.java

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram
$ git init
Initialized empty git repository in C:/Users/Leena/JavaProgram/.git/

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ ls -al
total 38
drwxr-xr-x 1 Leena 197121  0 Oct 31 23:02 ./
drwxr-xr-x 1 Leena 197121  0 Oct 31 23:01 ../
drwxr-xr-x 1 Leena 197121  0 Oct 31 23:02 .git/
-rw-r--r-- 1 Leena 197121 425 Oct 31 23:01 Hello.class
-rw-r--r-- 1 Leena 197121 113 Oct 31 23:01 Hello.java

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Hello.class
        Hello.java
```

```
MINGW64/c/Users/Leena/JavaProgram
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git status
On branch master

No commits yet

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

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

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git add Hello.java
warning: LF will be replaced by CRLF in Hello.java.
The file will have its original line endings in your working directory

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git add Hello.java

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git status
On branch master

No commits yet

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

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

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
```



```

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   Hello.java

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

no changes added to commit (use "git add" and/or "git commit -a")

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git diff
warning: LF will be replaced by CRLF in Hello.java.
The file will have its original line endings in your working directory
diff --git a/Hello.java b/Hello.java
index 54daa62..76c452b 100644
--- a/Hello.java
+++ b/Hello.java
@@ -3,5 +3,6 @@ public class Hello
    public static void main(String a[])
    {
        system.out.println("Hello world from GIT!");
+       system.out.println("Changes after First commit");
    }
}

```

```

MINGW64/c/Users/Leena/JavaProgram

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git add Hello.java

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git add Hello.class

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Hello.class
        modified:   Hello.java

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git diff

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git diff --staged
diff --git a/Hello.class b/Hello.class
new file mode 100644
index 0000000..d7f591b
Binary files /dev/null and b/Hello.class differ
diff --git a/Hello.java b/Hello.java
index 54daa62..76c452b 100644
--- a/Hello.java
+++ b/Hello.java
@@ -3,5 +3,6 @@ public class Hello
    public static void main(String a[])
    {
        System.out.println("Hello world from GIT!");
+       System.out.println("Changes after First commit");
    }
}

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)

```



MINGW64:/c/Users/Leena/JavaProgram

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)

```
$ git commit -m "Second commit"
[master 2316168] second commit
2 files changed, 1 insertion(+)
create mode 100644 Hello.class
```

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)

```
$ git status
on branch master
nothing to commit, working tree clean
```

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github.com/new

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## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner \* Repository name \*

LeenaVelni / Sample ✓

Great repository names are short and memorable. Need inspiration? How about [super-duper-winner?](#)

Description (optional)

☒ **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☐ **Private**  
You choose who can see and commit to this repository.

Initialize this repository with:  
Skip this step if you're importing an existing repository.

Windows taskbar: 10:57 PM



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Create a New Repository

+

github.com/new

Initialize this repository with:

Skip this step if you're importing an existing repository.

☒

Add a README file

This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: Java

Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

License: GNU General Public ...

This will set `main` as the default branch. Change the default name in your [settings](#).

You are creating a public repository in your personal account.

Create repository

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1 branch

0 tags

Go to file

Add file

Code

LeenaVelni Initial commit

860b06c now 1 commit

|            |                |     |
|------------|----------------|-----|
| .gitignore | Initial commit | now |
| LICENSE    | Initial commit | now |
| README.md  | Initial commit | now |

README.md

Sample

About

No description, website, or topics provided.

Readme

GPL-3.0 license

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1 watching

0 forks

Releases

No releases published

Create a new release

```
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ ls
Hello.class  Hello.java

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git remote add origin https://github.com/LeenaVelni/Sample.git

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git remote -v
origin  https://github.com/LeenaVelni/Sample.git (fetch)
origin  https://github.com/LeenaVelni/Sample.git (push)

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git fetch
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), 12.68 KiB | 393.00 KiB/s, done.
From https://github.com/LeenaVelni/Sample
* [new branch]      main      -> origin/main
```

```
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git push origin master --force
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (7/7), 905 bytes | 181.00 KiB/s, done.
Total 7 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:      https://github.com/LeenaVelni/Sample/pull/new/master
remote:
To https://github.com/LeenaVelni/Sample.git
* [new branch]      master -> master
```

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github.com/LeenaVelni/Sample/tree/master

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master had recent pushes 1 minute ago Compare & pull request

master 2 branches 0 tags Go to file Add file Code

This branch is 2 commits ahead, 1 commit behind main. Contribute

LeenaVelni Second commit 2316168 8 minutes ago 2 commits

|             |               |               |
|-------------|---------------|---------------|
| Hello.class | Second commit | 8 minutes ago |
| Hello.java  | Second commit | 8 minutes ago |

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About

No description, website, or topics provided.

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Releases

No releases published

Create a new release

Packages

```
MINGW64/c/Users/Leena/JavaProgram
public class Hello
{
    public static void main(String a[])
    {
        System.out.println("Hello World from GIT!");
        System.out.println("Changes after First commit");
        System.out.println("Changes after First Remote Upload");
    }
}
```

Hello.java[+] [unix] (23:04 31/10/2022) 7,58-72 All

:wq

```
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ vi Hello.java

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   Hello.java

no changes added to commit (use "git add" and/or "git commit -a")
```

```
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   Hello.java

no changes added to commit (use "git add" and/or "git commit -a")
```

```
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git add Hello.java
```

```
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   Hello.java
```

```
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git commit -m "Third commit"
[master c1f175b] Third commit
1 file changed, 1 insertion(+)
```

```
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 330 bytes | 165.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/LeenaVelni/sample.git
2316168..c1f175b  master -> master
```

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github.com/LeenaVelni/Sample/tree/master

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master had recent pushes 1 minute ago Compare & pull request

master 2 branches 0 tags

This branch is 3 commits ahead, 1 commit behind main. Contribute

Go to file Add file Code

LeenaVelni Third commit c1f175b 2 minutes ago 3 commits

|             |               |                |
|-------------|---------------|----------------|
| Hello.class | Second commit | 11 minutes ago |
| Hello.java  | Third commit  | 2 minutes ago  |

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About

No description, website, or topics provided.

GPL-3.0 license

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Releases

No releases published

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Packages

```
MINGW64:/c/Users/Leena/JavaProgram
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git clone https://github.com/LeenaVelni/sample.git hello-git-cloned
Cloning into 'hello-git-cloned'...
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 15 (delta 2), reused 10 (delta 2), pack-reused 0
Receiving objects: 100% (15/15), 13.83 KiB | 111.00 KiB/s, done.
Resolving deltas: 100% (2/2), done.

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ ls
Hello.class  Hello.java  hello-git-cloned/

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ cd hello-git-cloned/
```

```
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram/hello-git-cloned (master)
$ ls
Hello.class  Hello.java

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram/hello-git-cloned (master)
$ ls -a
./  ../  .git/  Hello.class  Hello.java

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram/hello-git-cloned (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
```

```
MINGW64:/c/Users/Leena/JavaProgram

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram/hello-git-cloned (master)
$ cd

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~
$ cd JavaProgram

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git log --oneline
c1f175b (HEAD -> master, origin/master) Third commit
2316168 Second commit
0bf5813 First commit

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git branch develp

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git checkout develp
Switched to branch 'develp'

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (develp)
$ ls
Hello.class Hello.java hello-git-cloned/

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (develp)
$ git checkout master
Switched to branch 'master'

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git log --oneline --graph
* c1f175b (HEAD -> master, origin/master, develp) Third commit
* 2316168 Second commit
* 0bf5813 First commit

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
```

```
MINGW64:/c/Users/Leena/JavaProgram

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git reset --hard HEAD
HEAD is now at c1f175b Third commit

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git reset --hard HEAD^
HEAD is now at 2316168 Second commit

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git log --oneline --graph
* 2316168 (HEAD -> master) Second commit
* 0bf5813 First commit

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git rm Hello.java
rm 'Hello.java'

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git status
on branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    deleted:    Hello.java

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    hello-git-cloned/
```

```
Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ git pull origin master
From https://github.com/LeenaveIni/sample
 * branch          master      -> FETCH_HEAD
error: Your local changes to the following files would be overwritten by merge:
    Hello.java
Please commit your changes or stash them before you merge.
Aborting
Updating 2316168..c1f175b

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$ ls
Hello.class  hello-git-cloned/

Leena@LAPTOP-UDDUJ6SQ MINGW64 ~/JavaProgram (master)
$
```