

IT8711 – FOSS and Cloud computing Laboratory

Roll No.: 19UITE019

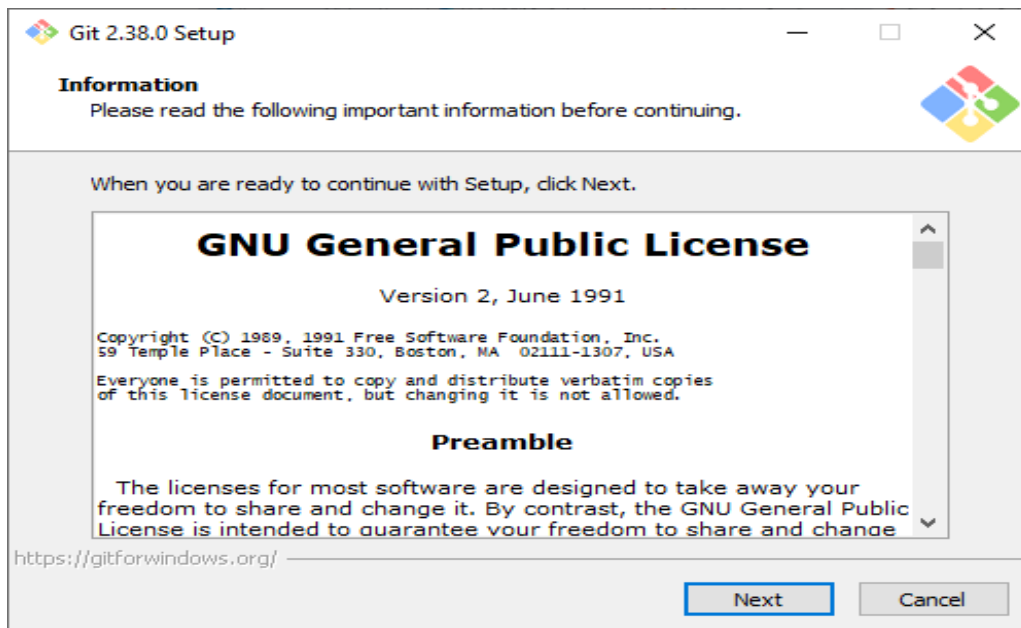
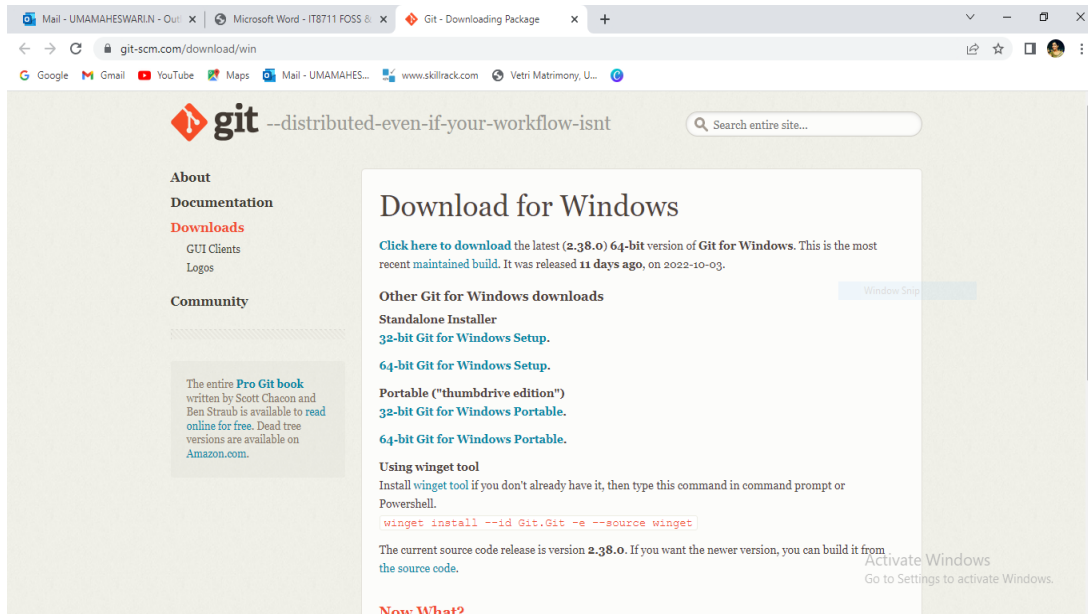
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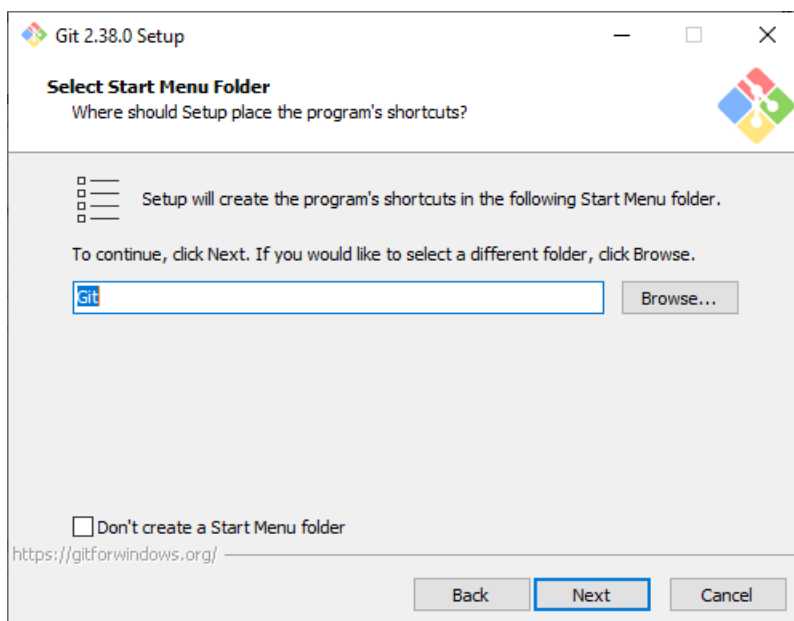
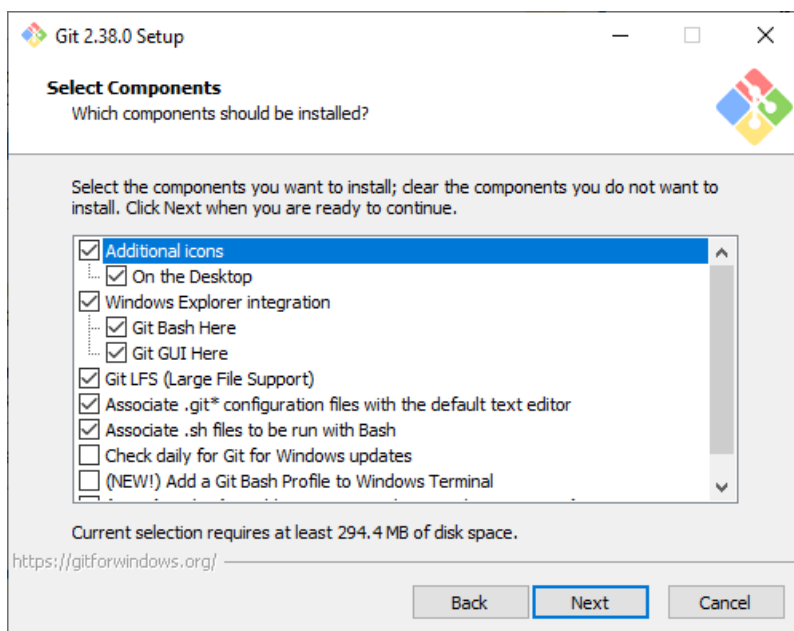
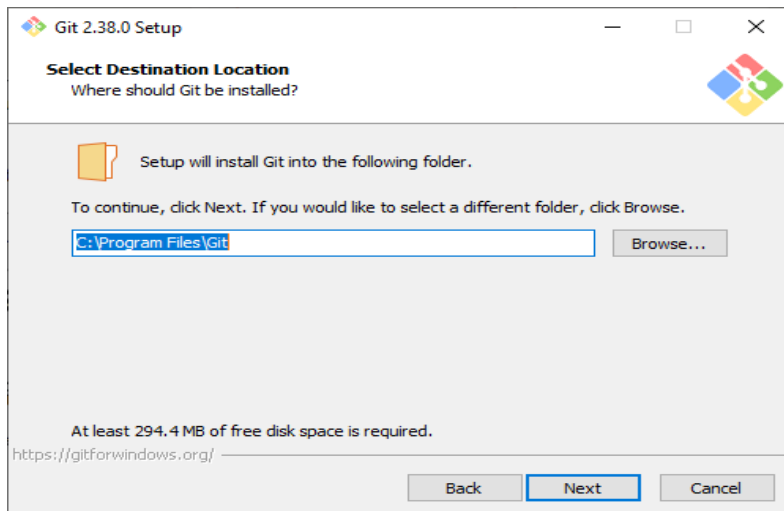
Name : N.Umamaheswari

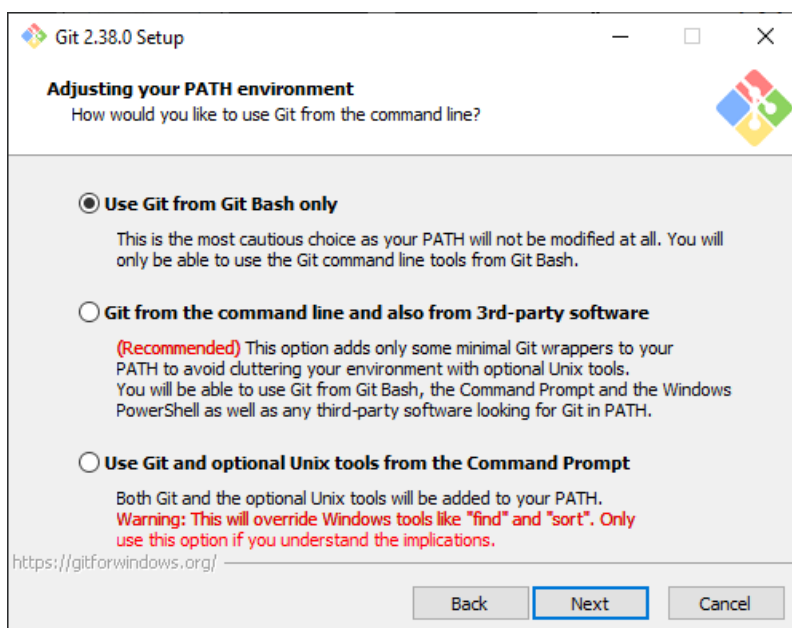
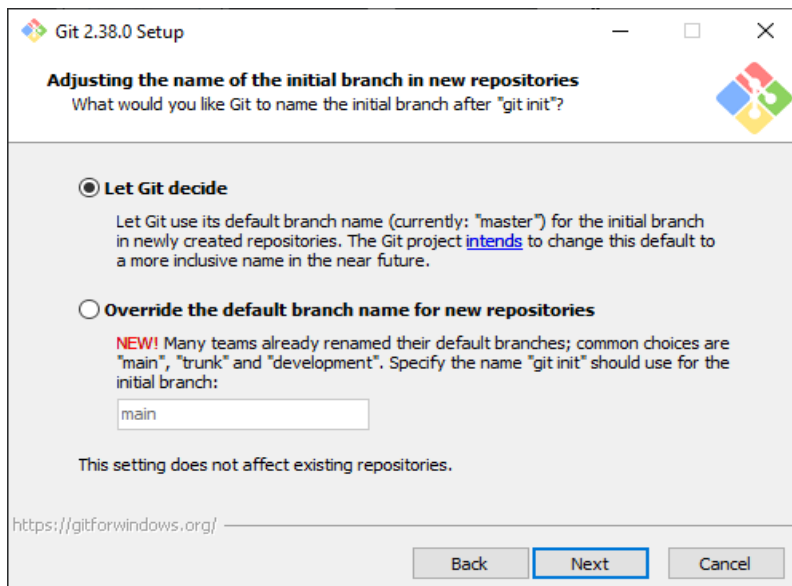
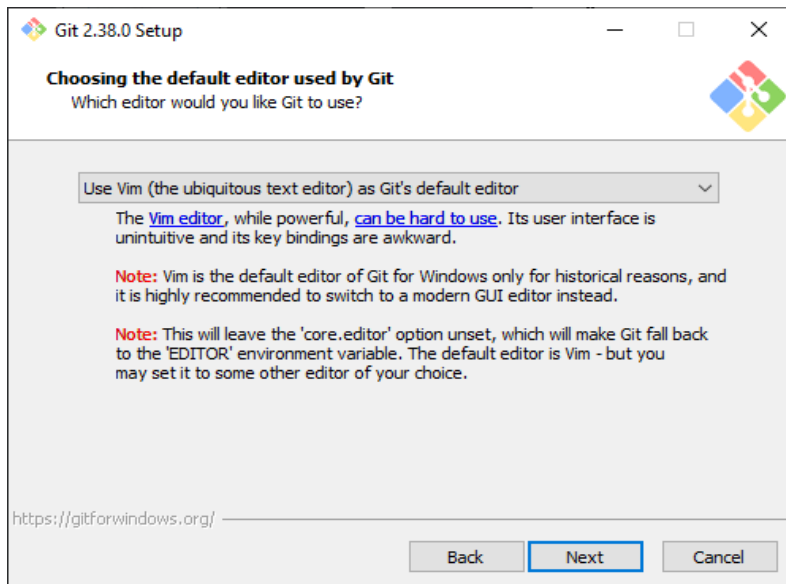
Date : 16.08.2022

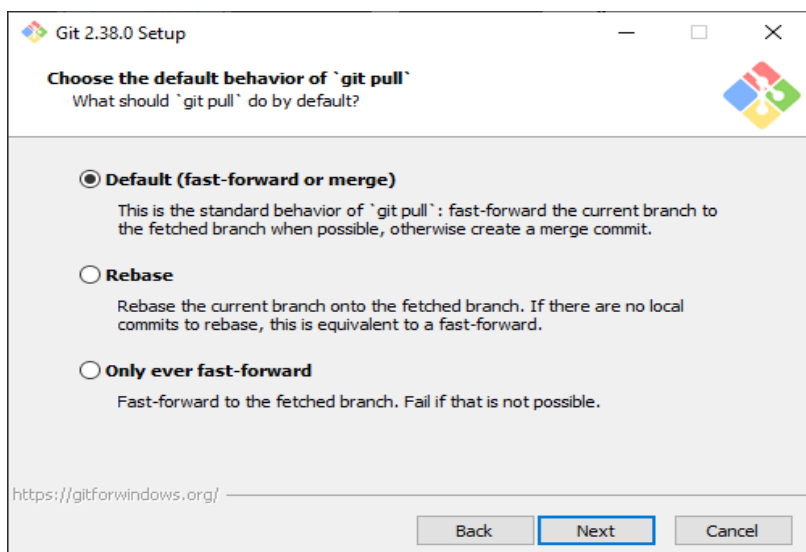
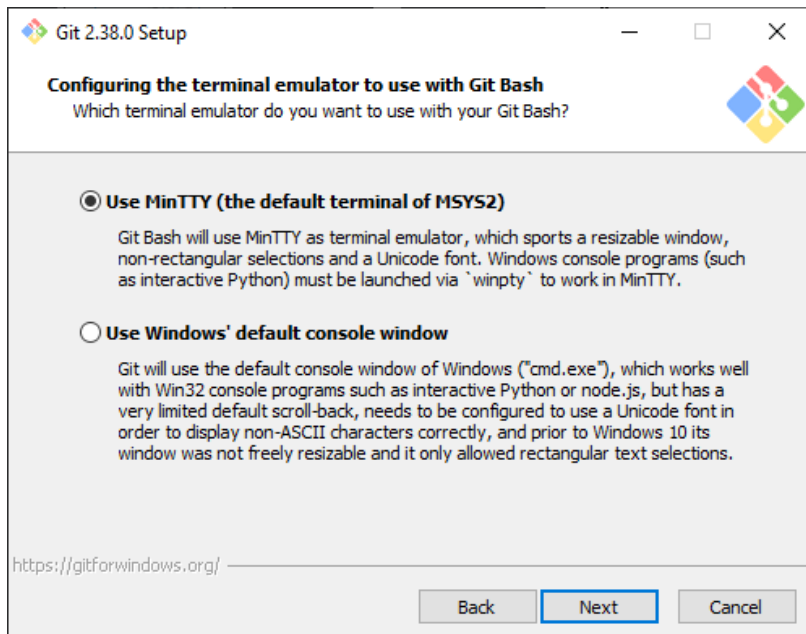
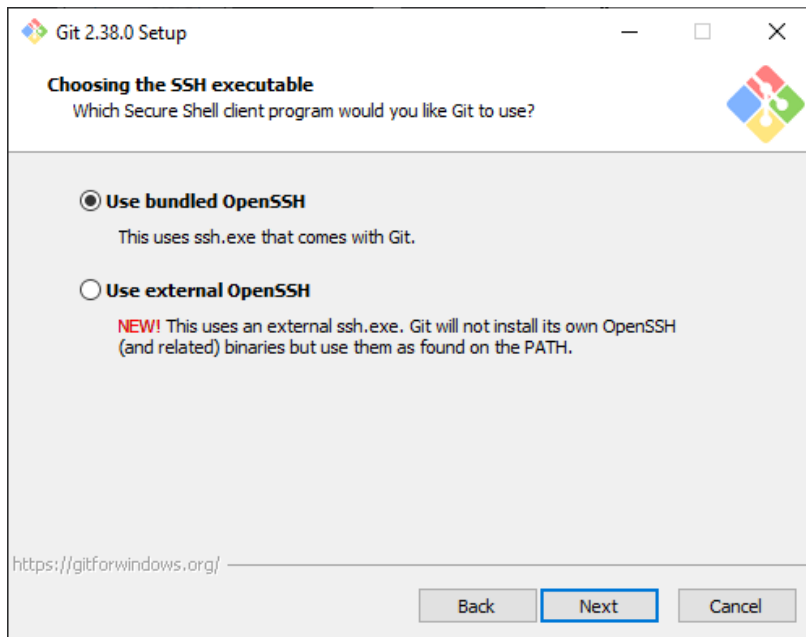
Ex 2:

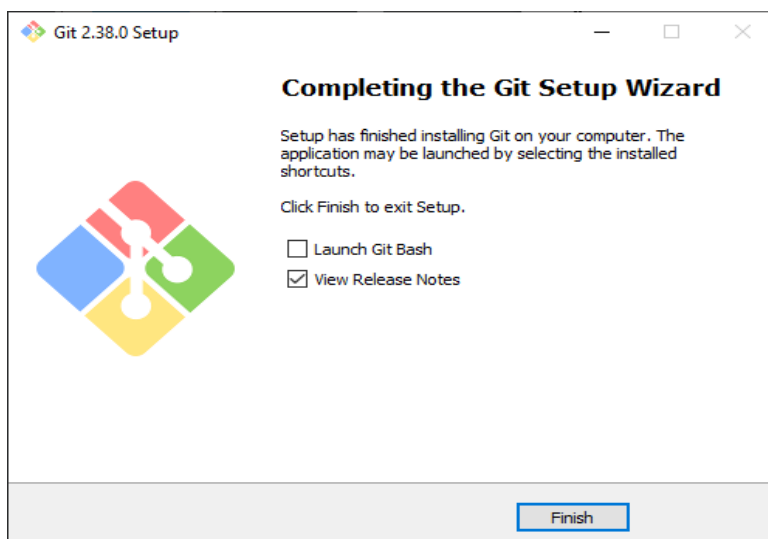
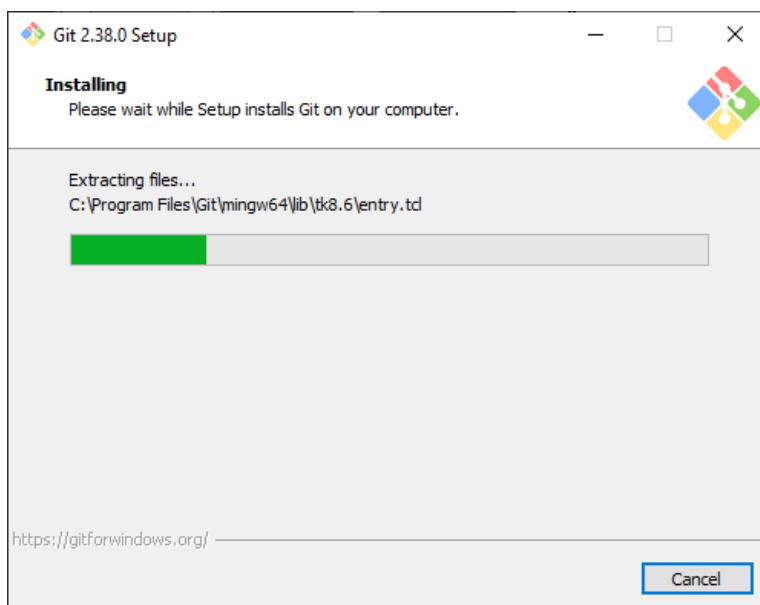
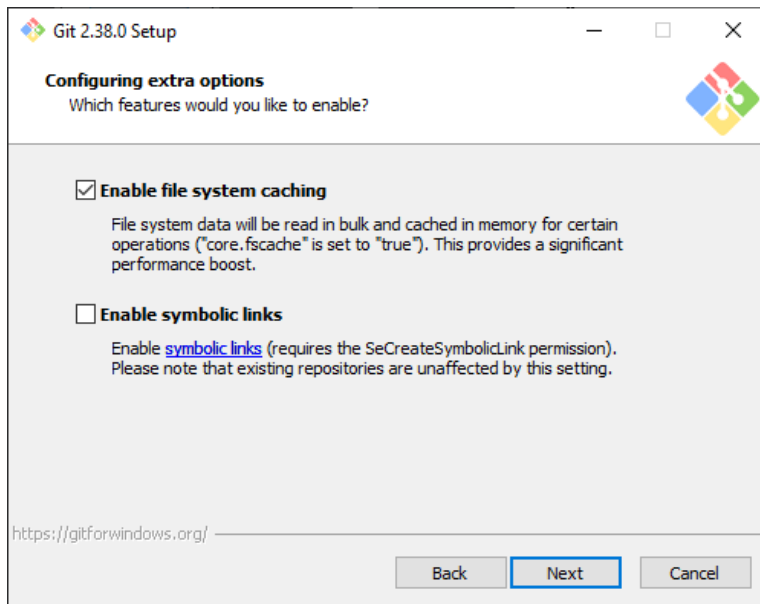
Managing Set of Programs using make utility

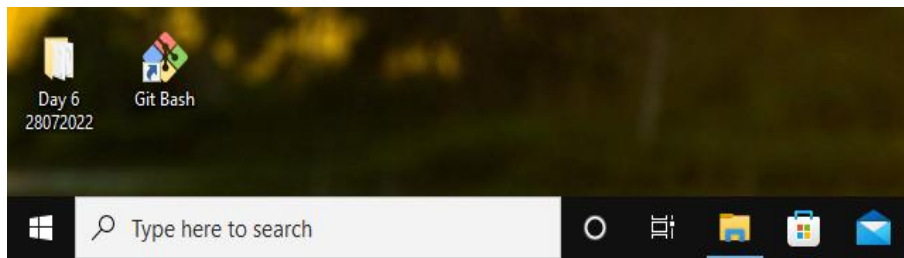












```
MINGW64:/c/Users/Kaliraj

Kaliraj@Uma MINGW64 ~
$ |
```

```
MINGW64:/c/Users/Kaliraj
ntuser.dat.LOG2
ntuser.ini

Kaliraj@Uma MINGW64 ~
$ git config --global user.name "uma"

Kaliraj@Uma MINGW64 ~
$ git config --global user.email "umamaheswari4753@gmail.com"

Kaliraj@Uma MINGW64 ~
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager-core
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.email=umamaheswari4753@gmail.com
user.name=uma

Kaliraj@Uma MINGW64 ~
$ |
```

```
Kaliraj@Uma MINGW64 ~
$ mkdir JavaProgram

Kaliraj@Uma MINGW64 ~
$ cd JavaProgram

Kaliraj@Uma MINGW64 ~/JavaProgram
$ vi Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram
$ |
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram

public class Hello
{
    public static void main(String args[])
    {
        System.out.println("Hello, World from GIT");
    }
}

~
~
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram
init.defaultbranch=master
user.email=umamaheswari4753@gmail.com
user.name=uma

Kaliraj@Uma MINGW64 ~
$ mkdir JavaProgram

Kaliraj@Uma MINGW64 ~
$ cd JavaProgram

Kaliraj@Uma MINGW64 ~/JavaProgram
$ vi Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram
$ ls
Hello.java
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram

Kaliraj@Uma MINGW64 ~
$ cd JavaProgram

Kaliraj@Uma MINGW64 ~/JavaProgram
$ ls
Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram
$ export PATH=$PATH:"C:\Program Files\Java\jdk-15.0.1\bin"

Kaliraj@Uma MINGW64 ~/JavaProgram
$ javac Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram
$ java Hello
Hello, World from GIT

Kaliraj@Uma MINGW64 ~/JavaProgram
$ ls
Hello.class  Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram
$ |
```

MINGW64:/c/Users/Kaliraj/JavaProgram

```
Kaliraj@Uma MINGW64 ~/JavaProgram
$ git init
Initialized empty Git repository in C:/Users/Kaliraj/JavaProgram/.git/

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ ls -al
total 22
drwxr-xr-x 1 Kaliraj 197121  0 Oct 14 21:07 ./
drwxr-xr-x 1 Kaliraj 197121  0 Oct 14 20:49 ../
drwxr-xr-x 1 Kaliraj 197121  0 Oct 14 21:07 .git/
-rw-r--r-- 1 Kaliraj 197121 425 Oct 14 21:06 Hello.class
-rw-r--r-- 1 Kaliraj 197121 117 Oct 14 20:49 Hello.java

Kaliraj@Uma 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)
```

MINGW64:/c/Users/Kaliraj/JavaProgram

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

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git add Hello.java
warning: in the working copy of 'Hello.java', LF will be replaced by CRLF the next
time Git touches it

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git add Hello.java

Kaliraj@Uma 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

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ |
```

```
Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git commit -m "First commit"
[master (root-commit) caea080] First commit
1 file changed, 8 insertions(+)
create mode 100644 Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git status
```



```
Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Hello.class

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

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git log
commit caea08037f370ef30e2edaa406aba7e56b5f81a5 (HEAD -> master)
Author: uma <umamaheswari4753@gmail.com>
Date:   Fri Oct 14 21:15:09 2022 +0530

    First commit

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ |
```

```
Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git log --stat
commit caea08037f370ef30e2edaa406aba7e56b5f81a5 (HEAD -> master)
Author: uma <umamaheswari4753@gmail.com>
Date:   Fri Oct 14 21:15:09 2022 +0530

    First commit

    Hello.java | 8 ++++++++
    1 file changed, 8 insertions(+)

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ |
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram
public class Hello
{
    public static void main(String args[])
    {
        System.out.println("Hello,World from GIT");
        System.out.println("Changes after first commit");
    }
}
```

```
Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ vi Hello.java

Kaliraj@Uma 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")

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ |
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram
no changes added to commit (use "git add" and/or "git commit -a")

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git diff
warning: in the working copy of 'Hello.java', LF will be replaced by CRLF the next time Git touches it
diff --git a/Hello.java b/Hello.java
index 490b48a..20eb0e0 100644
--- a/Hello.java
+++ b/Hello.java
@@ -2,7 +2,9 @@ public class Hello
 {
     public static void main(String args[])
     {
-        System.out.println("Hello, World from GIT");
+        System.out.println("Hello,World from GIT");
+        System.out.println("Changes after first commit");
+
     }
 }

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ |
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git add Hello.java
warning: in the working copy of 'Hello.java', LF will be replaced by CRLF the next time Git touches it

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git add Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git add Hello.class

Kaliraj@Uma 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

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git diff
```

```
Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git diff --staged
diff --git a/Hello.class b/Hello.class
new file mode 100644
index 0000000..d9aea22
Binary files /dev/null and b/Hello.class differ
diff --git a/Hello.java b/Hello.java
index 490b48a..20eb0e0 100644
--- a/Hello.java
+++ b/Hello.java
@@ -2,7 +2,9 @@ public class Hello
 {
     public static void main(String args[])
     {
-        System.out.println("Hello, World from GIT");
+        System.out.println("Hello,World from GIT");
```

```

+        System.out.println("Changes after first commit");
+    }
}
```

```
Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git commit -m "Second commit"
[master da5acae] Second commit
 2 files changed, 3 insertions(+), 1 deletion(-)
 create mode 100644 Hello.class

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git status
On branch master
nothing to commit, working tree clean
```



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Recent Repositories [New](#)

Find a repository...

- Uma1230/trial
- Uma1230/firstsite
- Uma1230/IT8711-FOSS-and-Cloud-computing-Laboratory
- Uma1230/ProgrammingAssignment2

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

The home for all developers — including you.

Welcome to your personal dashboard, where you can find an introduction to how GitHub works, tools to help you build software, and help merging your first lines of code.

[Start writing code](#)

Start a new repository

A repository contains all of your project's files, revision history, and collaborator discussion.

Uma1230 /

- ☐ **Public**
Anyone on the internet can see this repository
- ☒ **Private**
You choose who can see and commit to this repository

[Create a new repository](#)

Introduce yourself with a profile README

Share information about yourself by creating a profile README, which appears at the top of your profile page.

Uma1230 / README.md [Create](#)

```
1 - 🙋 Hi, I'm @Uma1230
2 - 📖 I'm interested in ...
3 - 🎓 I'm currently learning ...
4 - 🤝 I'm looking to collaborate on
5 - 📧 How to reach me ...
6
```

Latest changes


- 21 hours ago
Scheduled reminders updates in GitHub app for Microsoft Teams
 - 22 hours ago
Design improvements to GitHub Actions navigation
 - 2 days ago
Reverted recent change that caused some pull requests to be incorrectly...
 - 2 days ago
GitHub Actions: larger Hosted Runners now support "-latest" tag
- [View changelog →](#)

Activate Windows
Go to Settings to activate Windows.

Create a new repository

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

Owner *

 Uma1230 ▾

Repository name *

/ Sample ✓

Great repository names are short and memorable. Need inspiration? How about [congenial-goggles?](#)

Description (optional)

This is my sample

☒  **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.

☒ **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

Mail - UMAMAHESWARIN - Outl... x Microsoft Word - IT8711 FOSS & x Uma1230/Sample: This is my sam x +

github.com/Uma1230/Sample

Google Gmail YouTube Maps Mail - UMAMAHES... www.skillrack.com Vetri Matrimony, U...

Uma1230 / Sample Public

Pin Unwatch 1 Fork 0 Star 0

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main 1 branch 0 tags

Go to file Add file Code

Uma1230 Initial commit 153aa6c now 1 commit

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

README.md

Sample

This is my sample

About

This is my sample

Readme

GPL-2.0 license

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

Activate Windows

No packages published

Settings to activate Windows.

Publish your first package

```
MINGW64:/c/Users/Kaliraj/JavaProgram

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ ls
Hello.class  Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git remote add origin https://github.com/Uma1230/Sample.git

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git remote -v
origin  https://github.com/Uma1230/Sample.git (fetch)
origin  https://github.com/Uma1230/Sample.git (push)

Kaliraj@Uma 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), 7.52 KiB | 36.00 KiB/s, done.
From https://github.com/Uma1230/Sample
* [new branch]      main -> origin/main

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git push origin master --force
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (7/7), 922 bytes | 922.00 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/Uma1230/Sample/pull/new/master
remote:
To https://github.com/Uma1230/Sample.git
* [new branch]      master -> master

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ |
```

Mail - UMAMAHESWARIN - Outl... x Microsoft Word - IT8711 FOSS & x Uma1230/Sample at master x +

github.com/Uma1230/Sample/tree/master

Google Gmail YouTube Maps Mail - UMAMAHES... www.skillrack.com Vetri Matrimony, U...

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Uma1230 / Sample Public

Pin Unwatch 1 Fork 0 Star 0

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master had recent pushes 3 minutes 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

Uma1230 Second commit da5acae 11 minutes ago 2 commits

Hello.class	Second commit	11 minutes ago
Hello.java	Second commit	11 minutes ago

Help people interested in this repository understand your project by adding a README. Add a README

About

This is my sample

GPL-2.0 license

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

Activate Windows

Go to Settings to activate Windows.

No packages published

Public your first package

```
Kaliraj@Uma 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")

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git add Hello.java
warning: in the working copy of 'Hello.java', LF will be replaced by CRLF the ne
xt time Git touches it

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git add Hello.java

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

```
MINGW64:/c/Users/Kaliraj/JavaProgram

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

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git commit -m "Third commit"
[master d381e0d] Third commit
1 file changed, 1 insertion(+)

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 348 bytes | 348.00 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/Uma1230/Sample.git
da5acae..d381e0d  master -> master

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$
```

Mail - UMAMAHESWARLIN - Out X | Microsoft Word - IT8711 FOSS & X | Sample/Hello.java at master · Uma1230/Sample · GitHub

github.com/Uma1230/Sample/blob/master/Hello.java

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master Sample / Hello.java Go to file ...

Uma1230 Third commit Latest commit d381e0d 39 seconds ago History

1 contributor

11 lines (9 sloc) | 228 Bytes Raw Blame

```
1 public class Hello
2 {
3     public static void main(String args[])
4     {
5         System.out.println("Hello,World from GIT");
6         System.out.println("Changes after first commit");
7         System.out.println("Changes after First Remote Upload");
8     }
9 }
10 }
```

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Activate Windows
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```
Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git clone https://github.com/Uma1230/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), 8.70 KiB | 2.17 MiB/s, done.
Resolving deltas: 100% (2/2), done.

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram/hello-git-cloned

Kaliraj@Uma MINGW64 ~
$ cd JavaProgram

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ ls
Hello.class  Hello.java  hello-git-cloned/

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ cd hello-git-cloned/

Kaliraj@Uma MINGW64 ~/JavaProgram/hello-git-cloned (master)
$ ls
Hello.class  Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram/hello-git-cloned (master)
$ ls -a
./  ../  .git/  Hello.class  Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram/hello-git-cloned (master)
$ |
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram/hello-git-cloned

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ ls
Hello.class  Hello.java  hello-git-cloned/

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ cd hello-git-cloned/

Kaliraj@Uma MINGW64 ~/JavaProgram/hello-git-cloned (master)
$ ls
Hello.class  Hello.java

Kaliraj@Uma MINGW64 ~/JavaProgram/hello-git-cloned (master)
$ ls -a
./  ../  .git/  Hello.class  Hello.java

Kaliraj@Uma 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

Kaliraj@Uma MINGW64 ~/JavaProgram/hello-git-cloned (master)
$ |
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git log --oneline
d381e0d (HEAD -> master, origin/master) Third commit
da5acae Second commit
caea080 First commit

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git branch develp

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git checkout develp
Switched to branch 'develp'

Kaliraj@Uma MINGW64 ~/JavaProgram (develp)
$ ls
Hello.class  Hello.java  hello-git-cloned/

Kaliraj@Uma MINGW64 ~/JavaProgram (develp)
$ git checkout master
Switched to branch 'master'

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ |
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram

$ git checkout master
Switched to branch 'master'

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git log --oneline --graph
* d381e0d (HEAD -> master, origin/master, develp) Third commit
* da5acae Second commit
* caea080 First commit

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git reset --hard HEAD
HEAD is now at d381e0d Third commit

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git reset --hard HEAD^
HEAD is now at da5acae Second commit

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git log --oneline --graph
* da5acae (HEAD -> master) Second commit
* caea080 First commit

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ |
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git log --oneline --graph
* da5acae (HEAD -> master) Second commit
* caea080 First commit

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git rm Hello.java
rm 'Hello.java'

Kaliraj@Uma 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/

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ |
```

```
MINGW64:/c/Users/Kaliraj/JavaProgram

$ git pull origin master
From https://github.com/Uma1230/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 da5acae..d381e0d

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git reset --hard
HEAD is now at da5acae Second commit

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ git pull origin master
From https://github.com/Uma1230/Sample
 * branch          master      -> FETCH_HEAD
Updating da5acae..d381e0d
Fast-forward
 Hello.java | 1 +
 1 file changed, 1 insertion(+)

Kaliraj@Uma MINGW64 ~/JavaProgram (master)
$ .....
```