

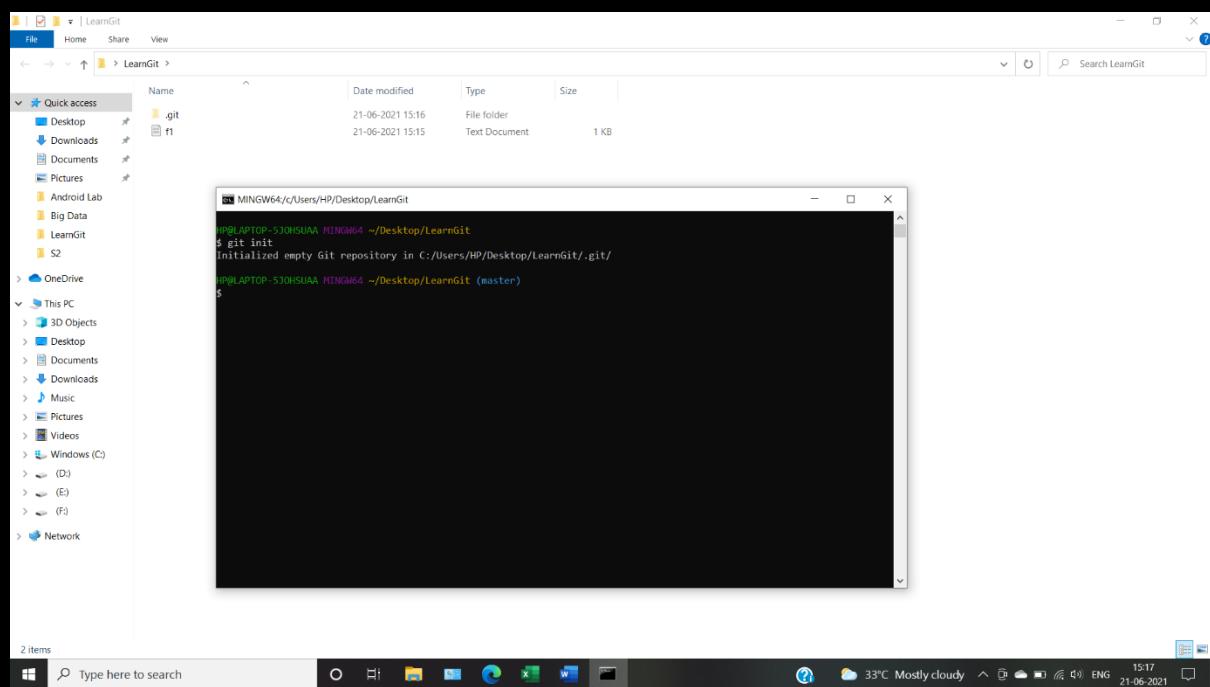
**DATE:** 21/06/2021

**TASK:** Familiarize and illustrate basic Git commands.

**WORKING DIRECTORY:** LearnGit

**COMMANDS USED:**

### ***1. Init:***



## 2. Status:

A screenshot of a Windows desktop environment. On the left, a File Explorer window shows a folder named 'LearnGit' containing a '.git' folder and a file named 'f1'. The file 'f1' is a text document of size 1 KB, modified on 21-06-2021 at 15:15. The right side of the screen features a terminal window titled 'MINGW64/c/Users/HP/Desktop/LearnGit'. The terminal output shows the following commands and responses:

```
$ git init
Initialized empty Git repository in C:/Users/HP/Desktop/LearnGit/.git/
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    f1.txt

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

$
```

The taskbar at the bottom includes icons for File Explorer, Task View, File Explorer, Mail, Edge, OneDrive, Microsoft Store, and File Explorer. The system tray shows the date as 21-06-2021 and the time as 15:17.

## 3. Adding f1.txt to staging area:

A screenshot of a Windows desktop environment, similar to the previous one. The File Explorer window on the left shows the 'LearnGit' folder with its contents. The terminal window on the right shows the following command and response:

```
$ git add f1.txt
$
```

The terminal window title is now 'MINGW64/c/Users/HP/Desktop/LearnGit (master)'. The taskbar and system tray are identical to the previous screenshot.

#### 4. Created f2.txt and checked the status:

MINGW64 /c/Users/HP/Desktop/LearnGit  
\$ git add f1.txt  
\$ git status  
On branch master  
No commits yet  
Changes to be committed:  
(use "git rm --cached <file>..." to unstage)  
new file: f1.txt  
  
\$ git status  
On branch master  
No commits yet  
Changes to be committed:  
(use "git rm --cached <file>..." to unstage)  
new file: f1.txt  
Untracked files:  
(use "git add <file>..." to include in what will be committed)  
f2.txt  
  
\$ git status  
On branch master  
No commits yet  
Changes to be committed:  
(use "git rm --cached <file>..." to unstage)  
new file: f1.txt  
Untracked files:  
(use "git add <file>..." to include in what will be committed)  
f2.txt  
  
\$

#### 5. Added f2.txt to staging area:

MINGW64 /c/Users/HP/Desktop/LearnGit  
On branch master  
No commits yet  
Changes to be committed:  
(use "git rm --cached <file>..." to unstage)  
new file: f1.txt  
Untracked files:  
(use "git add <file>..." to include in what will be committed)  
f2.txt  
  
\$ git add f2.txt  
\$ git status  
On branch master  
No commits yet  
Changes to be committed:  
(use "git rm --cached <file>..." to unstage)  
new file: f1.txt  
new file: f2.txt  
  
\$

## 6. Commit f1 and f2:

A screenshot of a Windows desktop environment. On the left, a file explorer window titled 'LearnGit' shows a folder structure under 'Quick access'. Inside the 'LearnGit' folder, there is a '.git' folder containing two files: 'f1' and 'f2'. The file 'f1' was modified on 21-06-2021 at 15:27, and 'f2' was modified on 21-06-2021 at 15:20. Both are text documents of size 1 KB. On the right, a terminal window titled 'MINGW64/c/Users/HP/Desktop/LearnGit' is open, displaying the following command-line session:

```
MINGW64/c/Users/HP/Desktop/LearnGit
to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'HP@LAPTOP-5JOHSUAA.(none)')

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git config --global user.name "DIVYA REJI"
error: key does not contain a section: user.name

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git config --global user.name "DIVYA REJI"

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git config --global user.name "Divyareji27"

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git config --global user.email "divyareji9@gmail.com"

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git commit -m "First Commit"
[master (root-commit) 8d3115d] First Commit
 2 files changed, 2 insertions(+)
 create mode 100644 f1.txt
 create mode 100644 f2.txt

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$
```

The taskbar at the bottom shows various pinned icons and the system tray displays the date and time as 21-06-2021 15:29.

## 7. After First Commit, executed status:

A screenshot of a Windows desktop environment, similar to the previous one. On the left, a file explorer window titled 'LearnGit' shows the same folder structure: a '.git' folder containing 'f1' and 'f2'. On the right, a terminal window titled 'MINGW64/c/Users/HP/Desktop/LearnGit' is open, displaying the following command-line session:

```
MINGW64/c/Users/HP/Desktop/LearnGit
fatal: unable to auto-detect email address (got 'HP@LAPTOP-5JOHSUAA.(none)')

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git config --global user.name "DIVYA REJI"
error: key does not contain a section: user.name

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git config --global user.name "DIVYA REJI"

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git config --global user.name "Divyareji27"

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git config --global user.email "divyareji9@gmail.com"

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git commit -m "First Commit"
[master (root-commit) 8d3115d] First Commit
 2 files changed, 2 insertions(+)
 create mode 100644 f1.txt
 create mode 100644 f2.txt

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git status
On branch master
nothing to commit, working tree clean

HP@LAPTOP-5JOHSUAA MINGW64 ~/Desktop/LearnGit (master)
$
```

The taskbar at the bottom shows various pinned icons and the system tray displays the date and time as 21-06-2021 15:29.

## 8. Executing log command:

```
$ git config --global user.name "DIVYA REJI"  
$ git config --global user.email "divyarej198@gmail.com"  
$ git commit -m "First Commit"  
[master (root-commit) 8d1115d] First Commit  
 2 files changed, 2 insertions(+)  
  create mode 100644 f1.txt  
  create mode 100644 f2.txt  
$ git status  
On branch master  
nothing to commit, working tree clean  
$ git log  
commit 8d1115d54ce548ea23c48165c621ad6a8df80bc4 (HEAD -> master)  
Author: Divyarej127 <divyarej198@gmail.com>  
Date: Mon Jun 21 15:27:50 2021 +0530  
  First Commit  
$
```

## 9. Created f3.txt file, viewed its status, added it to the staging area using(.) operator and again viewed the status:

```
$ git log  
commit 8d1115d54ce548ea23c48165c621ad6a8df80bc4 (HEAD -> master)  
Author: Divyarej127 <divyarej198@gmail.com>  
Date: Mon Jun 21 15:27:50 2021 +0530  
  First Commit  
$ git status  
On branch master  
Untracked files:  
(use "git add <file>..." to include in what will be committed)  
  f3.txt  
nothing added to commit but untracked files present (use "git add" to track)  
$ git add .  
$ git status  
On branch master  
Changes to be committed:  
(use "git restore --staged <file>..." to unstaged)  
  (new file: f3.txt)  
$
```

## 10. Committed f3.txt as Second Commit and viewed the log using log command:

```
MINGW64 /c/Users/HP/Desktop/LearnGit
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   f3.txt

$ git commit -m "Second Commit"
[master ce9f36a] Second Commit
 1 file changed, 1 insertion(+)
 create mode 100644 f3.txt

$ git log
commit ce9f36ae442c2080f6415d91dfddff0c2ce5e5b (HEAD -> master)
Author: Divyareji27 <divyareji198@gmail.com>
Date: Mon Jun 21 15:33:00 2021 +0530

  Second Commit

commit 8d3115d54ce548ea23c48165c621ad6a8df80bc4
Author: Divyareji27 <divyareji198@gmail.com>
Date: Mon Jun 21 15:27:50 2021 +0530

  First Commit

$
```

## 11. Checked out to the First Commit thereby removing f3.txt from working directory:

```
MINGW64 /c/Users/HP/Desktop/LearnGit
$ git log
commit 8d3115d54ce548ea23c48165c621ad6a8df80bc4
Author: Divyareji27 <divyareji198@gmail.com>
Date: Mon Jun 21 15:27:50 2021 +0530

  First Commit

$ git checkout 8d3115d54ce548ea23c48165c621ad6a8df80bc4
Note: switching to '8d3115d54ce548ea23c48165c621ad6a8df80bc4'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

  git switch -c <new-branch-name>

Or undo this operation with:

  git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 8d3115d First Commit

$
```

## 12. Checked out to the “MASTER” branch, edited f1.txt, viewed its status and added it to the staging area:

The screenshot shows a Windows desktop environment. In the center, there is a terminal window titled 'MINGW64' displaying a git session. The session starts with 'HEAD is now at 8d3115d First Commit'. The user runs 'git checkout master', which switches them to the 'master' branch. They then run 'git status', which shows they are on branch 'master' and have changes not staged for commit. They use 'git add f1.txt' to stage the changes. Finally, they run 'git status' again, which shows they are on branch 'master' and have changes to be committed. A dashed line separates this from the submission information below.

```
MINGW64/c/Users/HP/Desktop/LearnGit
HEAD is now at 8d3115d First Commit
HP@LAPTOP-S7OHSUUA MINGW64 ~/Desktop/LearnGit ((8d3115d...))
$ git checkout master
Previous HEAD position was 8d3115d First Commit
Switched to branch 'master'

HP@LAPTOP-S7OHSUUA MINGW64 ~/Desktop/LearnGit (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:   f1.txt

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

HP@LAPTOP-S7OHSUUA MINGW64 ~/Desktop/LearnGit (master)
$ git add f1.txt

HP@LAPTOP-S7OHSUUA MINGW64 ~/Desktop/LearnGit (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   f1.txt

HP@LAPTOP-S7OHSUUA MINGW64 ~/Desktop/LearnGit (master)
$
```

Submitted By:

Ms. Divya Reji

7, S4,

MCA Dept., AJCE

Submitted To:

Ms. Anit James

Asst. Professor,

MCA Dept., AJCE

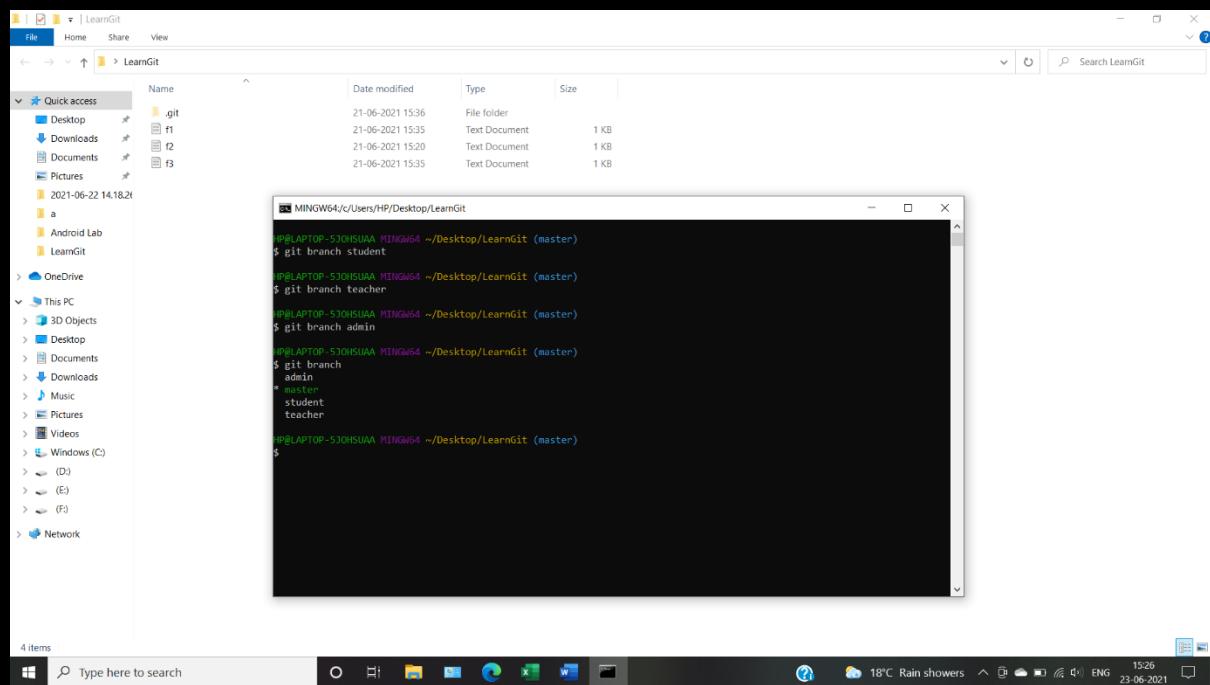
**DATE:** 23/06/2021

**TASK:** Familiarize and illustrate basic GIT commands.

**WORKING DIRECTORY:** LearnGit

**COMMANDS USED:**

### **1. Branch:**



The screenshot shows a Windows desktop environment. In the center, there is a terminal window titled 'MINGW64' running on a laptop with the IP address '51.0.102.14'. The terminal displays the following command-line session:

```
HP@LAPTOP-51.0.102.14: MINGW64 ~/Desktop/LearnGit (master)
$ git branch student
HP@LAPTOP-51.0.102.14: MINGW64 ~/Desktop/LearnGit (master)
$ git branch teacher
HP@LAPTOP-51.0.102.14: MINGW64 ~/Desktop/LearnGit (master)
$ git branch admin
HP@LAPTOP-51.0.102.14: MINGW64 ~/Desktop/LearnGit (master)
$ git branch
  admin
* master
  student
  teacher
HP@LAPTOP-51.0.102.14: MINGW64 ~/Desktop/LearnGit (master)
$
```

Below the terminal is a File Explorer window titled 'LearnGit' showing the contents of the directory. It contains a folder named '.git' and three text files named 'f1', 'f2', and 'f3'. The 'Date modified' column shows the files were created on 21-06-2021 at 15:36, 15:35, and 15:20 respectively. The 'Type' column indicates they are all 'Text Document' and the 'Size' column shows they are all 1 KB.

## 2. Add and commit new file f4.txt in branch 'teacher':

A screenshot of a Windows desktop environment. On the left is a File Explorer window titled 'LearnGit' showing a directory structure with files f1, f2, f3, and f4. On the right is a terminal window with the following session:

```
MINGW64/c/Users/HP/Desktop/LearnGit
MINGW64 ~/Desktop/LearnGit (teacher)
$ git add f4.txt
$ git status
On branch teacher
Changes to be committed:
  (use "git restore --staged <file>..." to include in what will be committed)
    modified:   f1.txt
    new file:   f4.txt

$ git commit -m "Commit in teacher"
[teacher 73a8da] Commit in teacher
 2 files changed, 2 insertions(+), 1 deletion(-)
 create mode 100644 f4.txt

$ git status
On branch teacher
nothing to commit, working tree clean

$
```

The taskbar at the bottom shows the date as 23-06-2021 and the time as 15:29.

## 3. Checked out to master:

A screenshot of a Windows desktop environment. On the left is a File Explorer window titled 'LearnGit' showing the same directory structure as before. On the right is a terminal window with the following session:

```
MINGW64/c/Users/HP/Desktop/LearnGit
MINGW64 ~/Desktop/LearnGit (teacher)
$ git add f4.txt
$ git status
On branch teacher
Changes to be committed:
  (use "git restore --staged <file>..." to include in what will be committed)
    modified:   f1.txt
    new file:   f4.txt

$ git commit -m "Commit in teacher"
[teacher 73a8da] Commit in teacher
 2 files changed, 2 insertions(+), 1 deletion(-)
 create mode 100644 f4.txt

$ git checkout master
Switched to branch 'master'

$
```

The taskbar at the bottom shows the date as 23-06-2021 and the time as 15:30.

#### 4. Merged f4.txt to branch ‘master’ and viewed branches in graph structure:

The screenshot shows a Windows desktop environment. On the left is a File Explorer window titled 'LearnGit' showing a directory structure with files f1, f2, f3, and f4. On the right is a terminal window titled 'MINGW64/c/Users/HP/Desktop/LearnGit' displaying the following git command history:

```
$ git checkout admin
Switched to branch 'admin'

$ git checkout teacher
Switched to branch 'teacher'

$ git checkout master
Switched to branch 'master'

$ git merge teacher
Updating ce9f36a..73a8ada
Fast-forward
 f1.txt | 2 +-
 f4.txt | 1 +
 2 files changed, 2 insertions(+), 1 deletion(-)
 create mode 100644 f4.txt

$ git log --all --decorate --oneline --graph
* 73a8ada (HEAD -> master, teacher) Commit in teacher
* ce9f36a (student, admin) Second Commit
* 8d3115d First Commit

$
```

The taskbar at the bottom shows the date as 23-06-2021 and the time as 15:32.

#### 5. Deleted all 3 branches using -d and -D options:

The screenshot shows a Windows desktop environment. On the left is a File Explorer window titled 'LearnGit' showing a directory structure with files f1, f2, f3, and f4. On the right is a terminal window titled 'MINGW64/c/Users/HP/Desktop/LearnGit' displaying the following git command history:

```
$ git merge teacher
Updating ce9f36a..73a8ada
Fast-forward
 f1.txt | 2 +-
 f4.txt | 1 +
 2 files changed, 2 insertions(+), 1 deletion(-)
 create mode 100644 f4.txt

$ git log --all --decorate --oneline --graph
* 73a8ada (HEAD -> master, teacher) Commit in teacher
* ce9f36a (student, admin) Second Commit
* 8d3115d First Commit

$ git branch -d student
Deleted branch student (was ce9f36a).

$ git branch -d teacher
Deleted branch teacher (was 73a8ada).

$ git branch -d admin
Deleted branch admin (was ce9f36a).

$
```

## **6. Viewed status and log after deletion of branches:**

File Home Share View

LearnGit

Name	Date modified	Type	Size
.git	23-06-2021 15:34	File folder	
f1	23-06-2021 15:31	Text Document	1 KB
f2	21-06-2021 15:20	Text Document	1 KB
f3	21-06-2021 15:35	Text Document	1 KB
f4	23-06-2021 15:31	Text Document	1 KB

```
MINGW64/c/Users/HP/Desktop/LearnGit
$ git log --all --decorate --oneline --graph
* 73a8ada (HEAD -> master, teacher) Commit in teacher
* ce9f36a (student, admin) Second Commit
* 8d3115d First Commit

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git branch -d student
Deleted branch student (was ce9f36a).

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git branch -D teacher
Deleted branch teacher (was 73a8ada).

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git branch -d admin
Deleted branch admin (was ce9f36a).

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git status
On branch master
nothing to commit, working tree clean

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git log --all --decorate --oneline --graph
* 73a8ada (HEAD -> master) Commit in teacher
* ce9f36a Second Commit
* 8d3115d First Commit

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$
```

## **7. Viewed the remaining branches using git branch command:**

File Home Share View

LearnGit

Name	Date modified	Type	Size
.git	23-06-2021 15:34	File folder	
f1	23-06-2021 15:31	Text Document	1 KB
f2	21-06-2021 15:20	Text Document	1 KB
f3	21-06-2021 15:35	Text Document	1 KB
f4	23-06-2021 15:31	Text Document	1 KB

```
MINGW64/c/Users/HP/Desktop/LearnGit
$ git branch -d student
Deleted branch student (was ce9f36a).

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git branch -D teacher
Deleted branch teacher (was 73a8ada).

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git branch -d admin
Deleted branch admin (was ce9f36a).

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git status
On branch master
nothing to commit, working tree clean

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git log --all --decorate --oneline --graph
* 73a8ada (HEAD -> master) Commit in teacher
* ce9f36a Second Commit
* 8d3115d First Commit

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$ git branch
* master

HPBLAPTOP-5J0HSUAA MINGW64 ~/Desktop/LearnGit (master)
$
```

---

**Submitted By:**

Ms. Divya Reji  
7, S4,  
MCA Dept., AJCE

**Submitted To:**

Ms. Anit James  
Asst. Professor,  
MCA Dept., AJCE

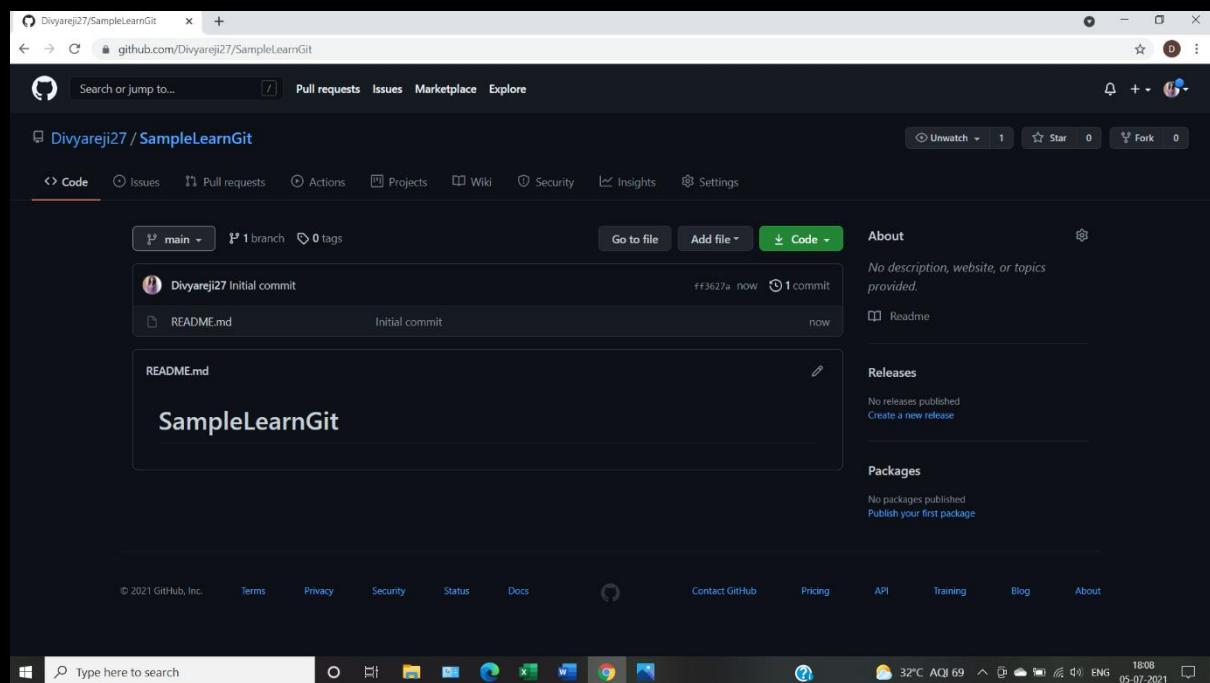
**DATE:** 05/07/2021

**TASK:** Familiarize and illustrate basic GIT commands.

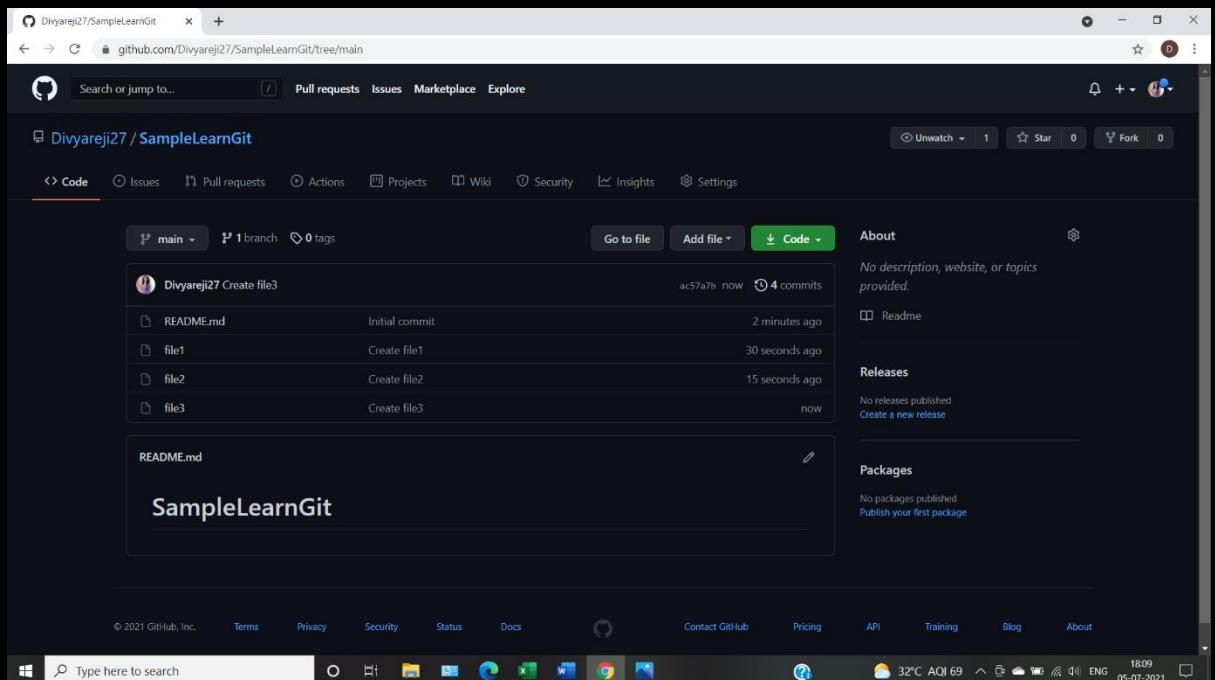
**WORKING DIRECTORY:** SampleLearnGit (cloned from remote repository)

## **COMMANDS USED:**

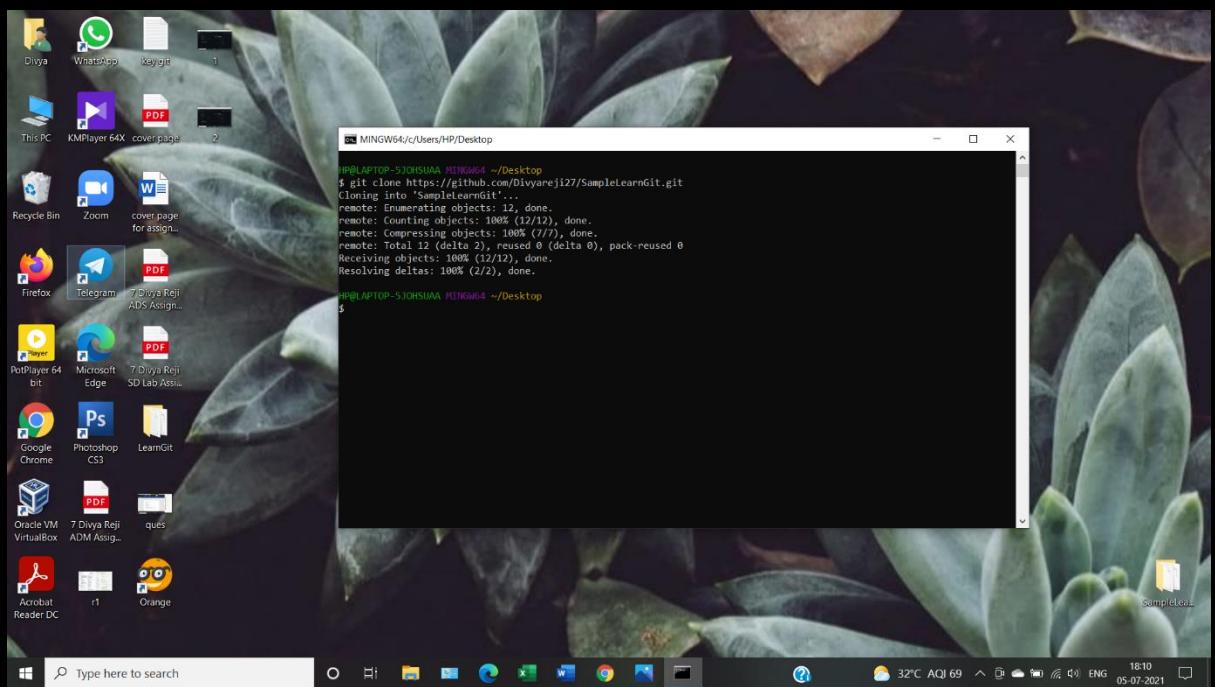
### **1. Create a Remote Repository:**



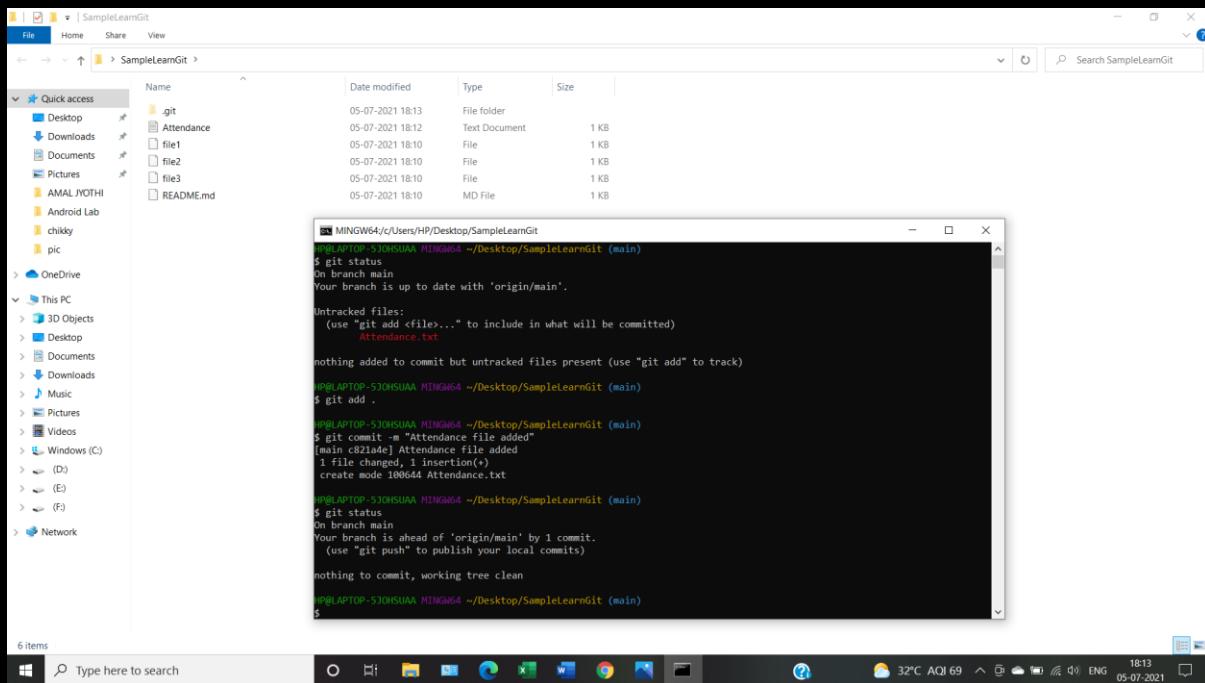
## **2. Add files to remote repository (minimum three files):**



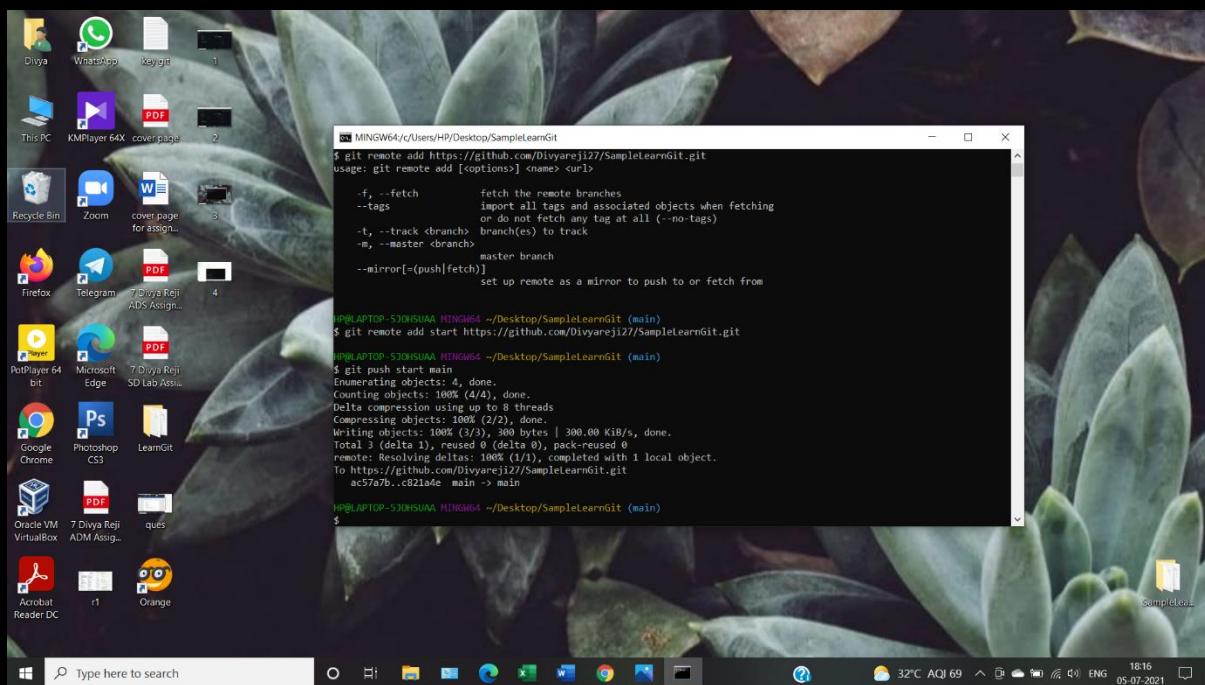
## **3. Clone the repository:**



## 4. Modify files in local repository (Attendance.txt file):



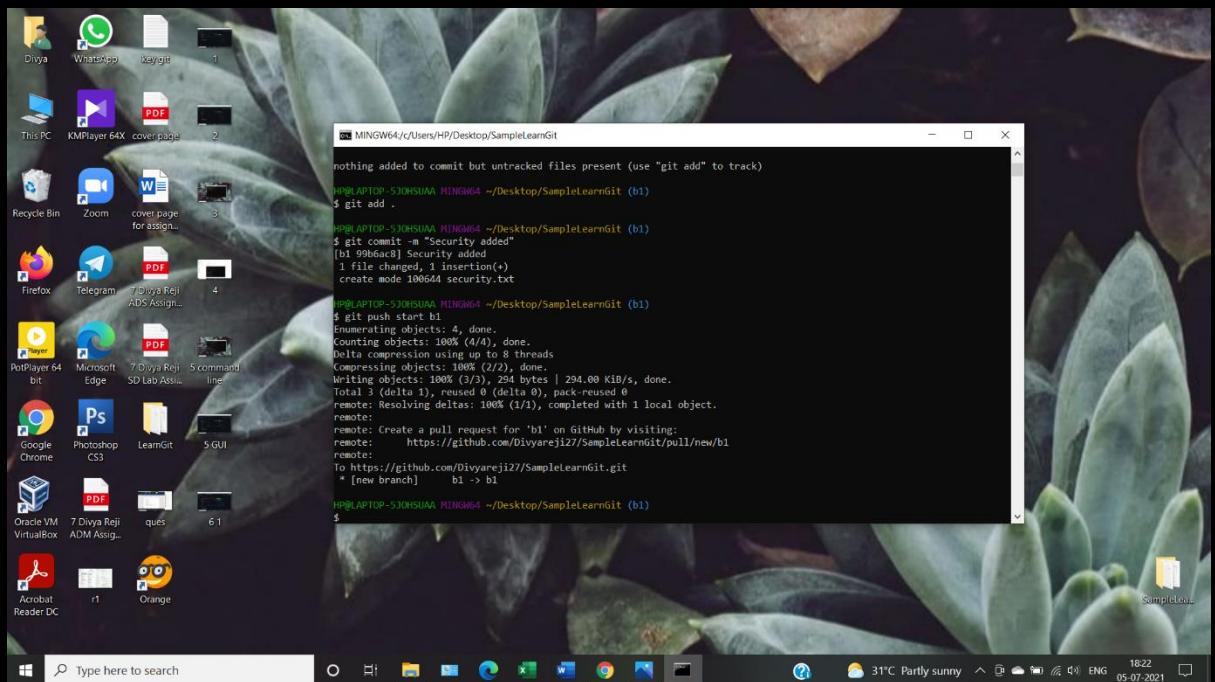
## 5. Push the files to GitHub:



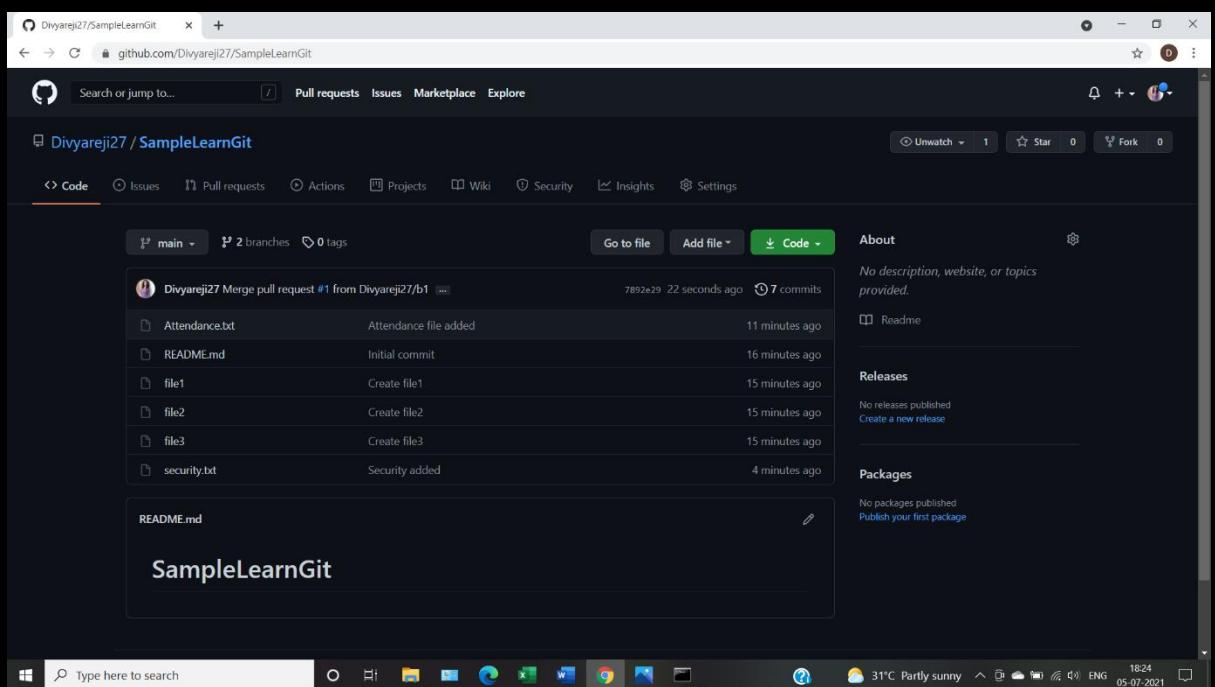
The screenshot shows a GitHub repository page for 'Divyarej27/SampleLearnGit'. The 'Code' tab is selected. The main branch is 'main'. There is 1 branch and 0 tags. The repository has 5 commits. The latest commit is 'Attendance file added' by 'Divyarej27' at 3 minutes ago. Other files listed include 'Attendance.txt', 'README.md', 'file1', 'file2', and 'file3'. The README.md file contains the text 'SampleLearnGit'. On the right side, there are sections for 'About', 'Releases', and 'Packages', all of which are currently empty.

## ***6. Modify files from GitHub (create a new branch):***

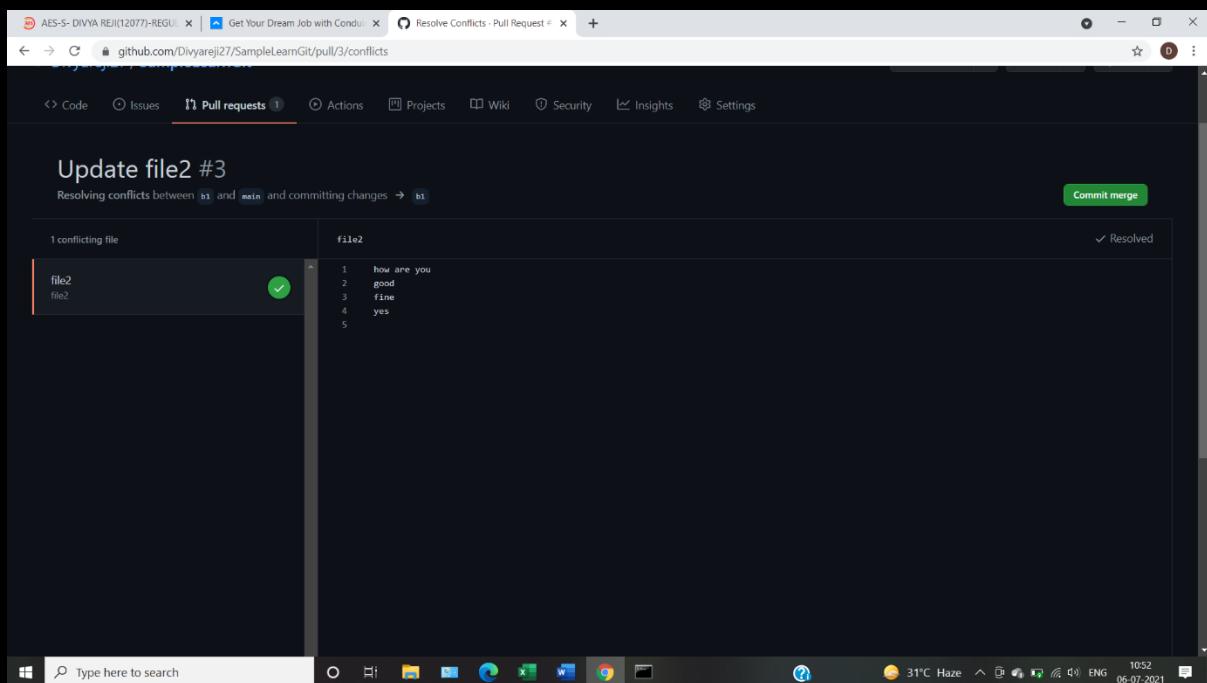
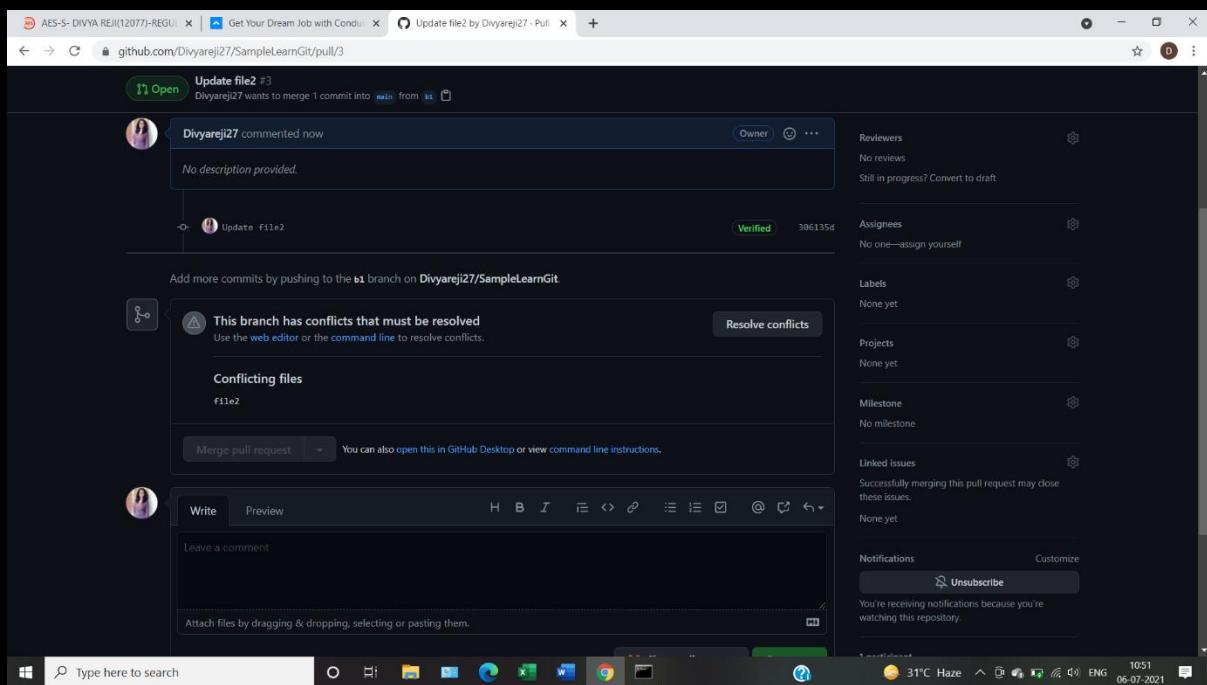
The screenshot shows the same GitHub repository page after a new branch 'b1' has been created. The 'Code' tab is selected. The main branch is now 'main' and there are 2 branches. The repository still has 0 tags. The latest commit is 'Attendance file added' by 'Divyarej27' at 8 minutes ago. The other files ('Attendance.txt', 'README.md', 'file1', 'file2', 'file3') are also present. The README.md file still contains 'SampleLearnGit'. The right sidebar remains empty.

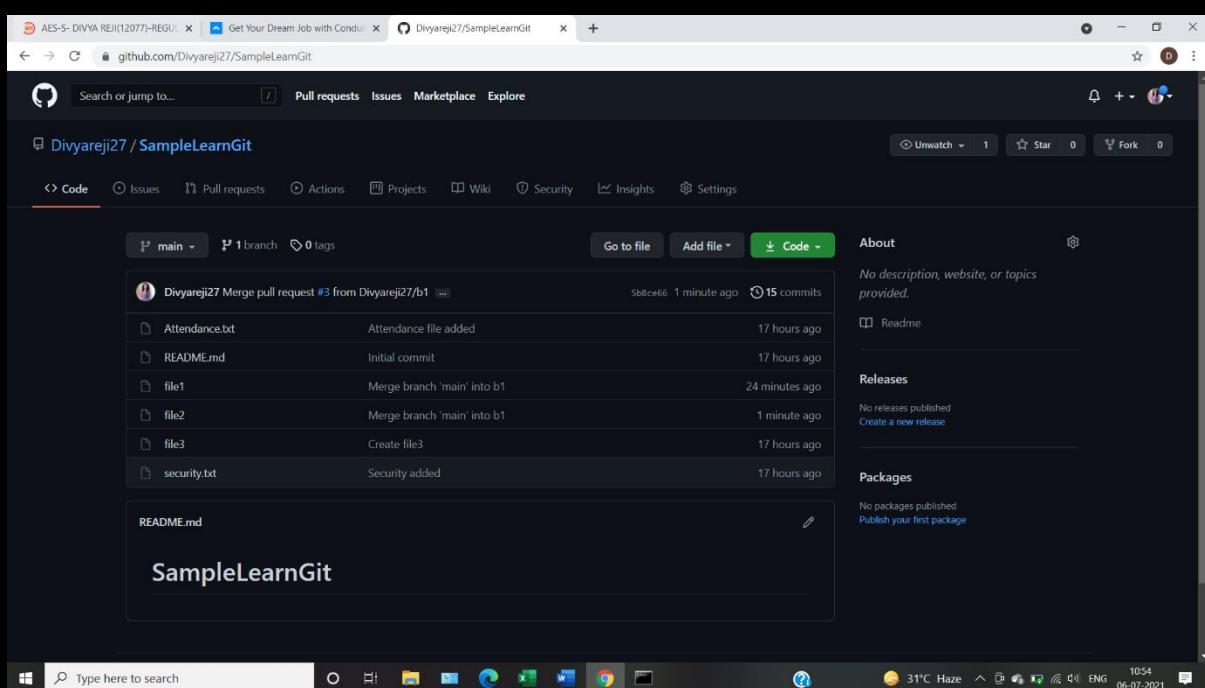
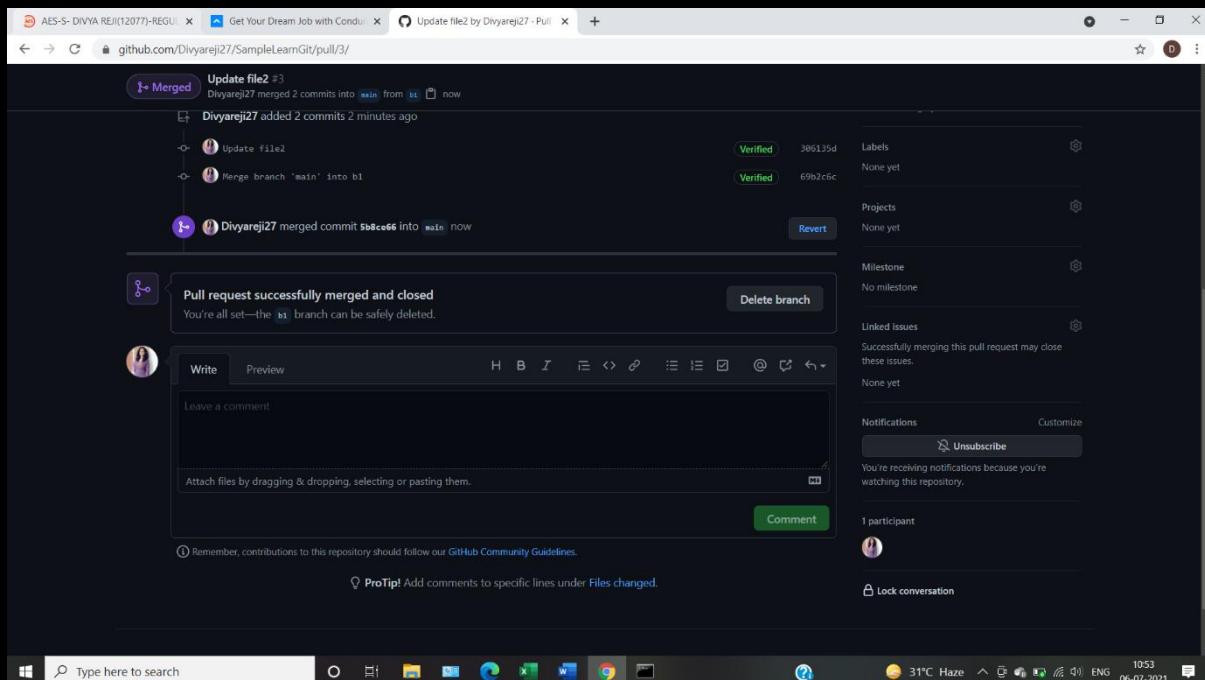


## 7. Try pull request from GitHub:



## **8. Resolve merge conflicts:**





## 9. Pull the contents from the GitHub to your local repository:

The screenshot shows a Windows desktop environment. On the left is a File Explorer window titled "SampleLearnGit" showing a directory structure with files like ".git", "Attendance", "file1", "file2", "file3", "README.md", and "security". On the right is a terminal window titled "MINGW64/c:/User/HP/Desktop/SampleLearnGit" displaying the output of a git pull command. The terminal output shows the cloning process from a GitHub repository, compressing objects, unpacking objects, and updating branches. It also shows a fast-forward merge where the local branch "main" is updated to match the remote branch "main". The terminal window has a black background with white text.

```
$ git pull
remote: Compressing objects: 100% (8/8), done.
remote: Total 11 (delta 3), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (11/11), 3.14 KiB | 4.00 KiB/s, done.
From https://github.com/Divyareej127/SampleLearnGit
 * branch      main      -> FETCH_HEAD
   c821a4e..03ab10  main      -> start/main
Updating c821a4e..03ab10
Fast-forward
 file1 | 3 +++
 security.txt | 1 ++
 2 files changed, 4 insertions(+)
 create mode 100644 security.txt

HP@LAPTOP-5J0HSUAA MINGW64 ~/Desktop/SampleLearnGit (main)
$ git pull
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 11 (delta 3), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (10/10), 2.56 KiB | 3.00 KiB/s, done.
From https://github.com/Divyareej127/SampleLearnGit
 * branch      main      -> FETCH_HEAD
   03ab10..5b8ce66  main      -> start/main
Updating 03ab10..5b8ce66
Fast-forward
 file2 | 3 +++
 1 file changed, 3 insertions(+)

HP@LAPTOP-5J0HSUAA MINGW64 ~/Desktop/SampleLearnGit (main)
```

## 10. Create a separate branch and do modifications on that branch:

The screenshot shows a Windows desktop environment. On the left is a File Explorer window titled "SampleLearnGit" showing a directory structure with files like ".git", "Attendance", "file1", "file2", "file3", "README.md", and "security". On the right is a terminal window titled "MINGW64/c:/Users/HP/Desktop/SampleLearnGit" displaying the output of a git workflow. It starts with a pull command, followed by a message about being ahead of origin/main by 11 commits. Then it shows staged changes for a commit, including adding the "security" file and discarding changes in the working directory. Finally, it creates a new branch named "feature", switches to it, and checks out the "feature" file. The terminal window has a black background with white text.

```
Your branch is ahead of 'origin/main' by 11 commits.
(use "git push" to publish your local commits)

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       security.txt

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

HP@LAPTOP-5J0HSUAA MINGW64 ~/Desktop/SampleLearnGit (main)
$ git add .
HP@LAPTOP-5J0HSUAA MINGW64 ~/Desktop/SampleLearnGit (main)
$ git commit -m "updated security file with date"
[main 849a6de] updated security file with date
 1 file changed, 2 insertions(+), 1 deletion(-)

HP@LAPTOP-5J0HSUAA MINGW64 ~/Desktop/SampleLearnGit (main)
$ git branch
* main
  feature

HP@LAPTOP-5J0HSUAA MINGW64 ~/Desktop/SampleLearnGit (main)
$ git checkout feature
Switched to branch 'feature'
```

## **11. Merge new branch with Master branch and delete new branch (resolved merge conflicts if any):**

The screenshot shows a Windows desktop environment. In the foreground, there is a terminal window titled 'MINGW64/c/Users/HP/Desktop/SampleLearnGit'. The terminal output is as follows:

```
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: security.txt

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

HP@LAPTOP-5J0HSUUA MINGW64 ~/Desktop/SampleLearnGit (feature)
$ git add .

HP@LAPTOP-5J0HSUUA MINGW64 ~/Desktop/SampleLearnGit (feature)
$ git commit -m "security updated in feature branch"
[feature Se3ca73] security updated in feature branch
 1 file changed, 1 insertion(+)

HP@LAPTOP-5J0HSUUA MINGW64 ~/Desktop/SampleLearnGit (main)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 12 commits.
  (use "git push" to publish your local commits)

HP@LAPTOP-5J0HSUUA MINGW64 ~/Desktop/SampleLearnGit (main)
$ git merge feature
Updating 849a6de..5e3ca73
Fast-forward
  security.txt | 1 +
  1 file changed, 1 insertion(+)

HP@LAPTOP-5J0HSUUA MINGW64 ~/Desktop/SampleLearnGit (main)
```

Below the terminal window, a File Explorer window is open showing the contents of the 'SampleLearnGit' folder. The folder structure includes a '.git' folder, 'Attendance' folder, 'file1', 'file2', 'file3', 'README.md', and 'security' file. The 'security' file was modified in the 'feature' branch and then merged into the 'main' branch.

## **12. Push the folder to GitHub:**

The screenshot shows a Windows desktop environment. In the foreground, there is a terminal window titled 'MINGW64/c/Users/HP/Desktop/SampleLearnGit'. The terminal output is as follows:

```
[feature Se3ca73] security updated in feature branch
 1 file changed, 1 insertion(+)

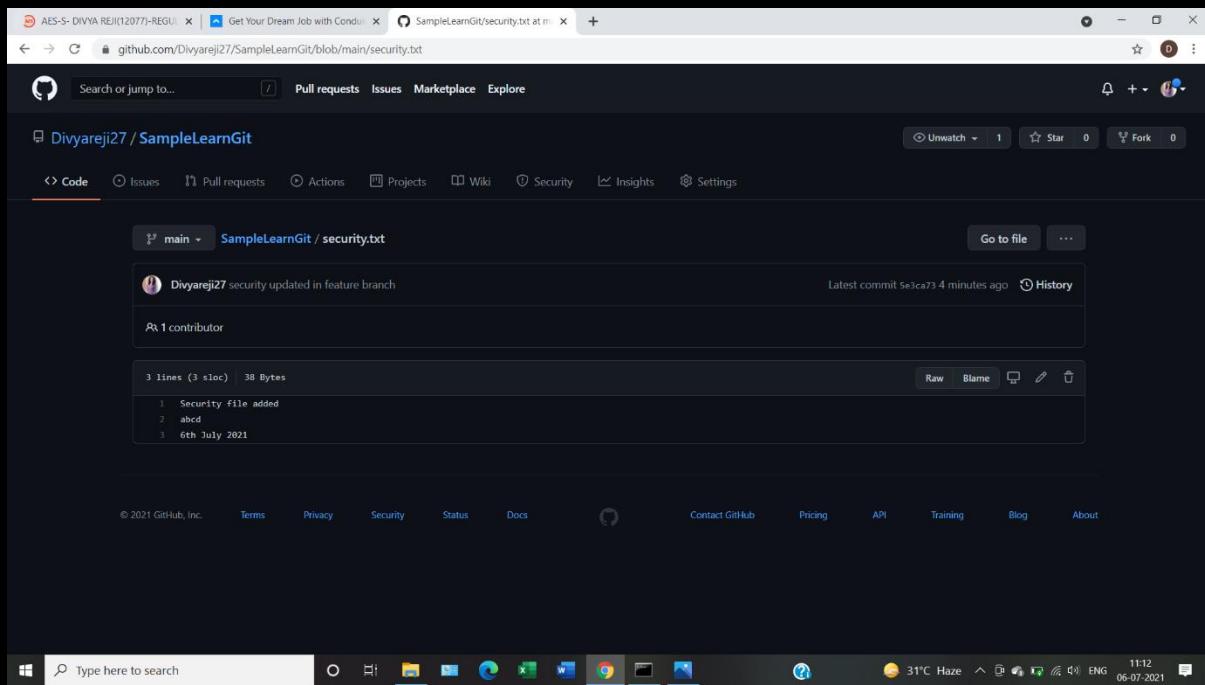
HP@LAPTOP-5J0HSUUA MINGW64 ~/Desktop/SampleLearnGit (feature)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 12 commits.
  (use "git push" to publish your local commits)

HP@LAPTOP-5J0HSUUA MINGW64 ~/Desktop/SampleLearnGit (main)
$ git merge feature
Updating 849a6de..5e3ca73
Fast-forward
  security.txt | 1 +
  1 file changed, 1 insertion(+)

HP@LAPTOP-5J0HSUUA MINGW64 ~/Desktop/SampleLearnGit (main)
$ git push start main
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 573 bytes | 143.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/Divyarej127/SampleLearnGit.git
  5b8ce0d..5e3ca73 main -> main

HP@LAPTOP-5J0HSUUA MINGW64 ~/Desktop/SampleLearnGit (main)
```

Below the terminal window, a File Explorer window is open showing the contents of the 'SampleLearnGit' folder. The folder structure includes a '.git' folder, 'Attendance' folder, 'file1', 'file2', 'file3', 'README.md', and 'security' file. The 'security' file was modified in the 'feature' branch and then merged into the 'main' branch, and finally pushed to the GitHub repository.



## Submitted By:

Ms. Divya Reji  
7, S4,  
MCA Dept., AJCE

## Submitted To:

Ms. Anit James  
Asst. Professor,  
MCA Dept., AJCE

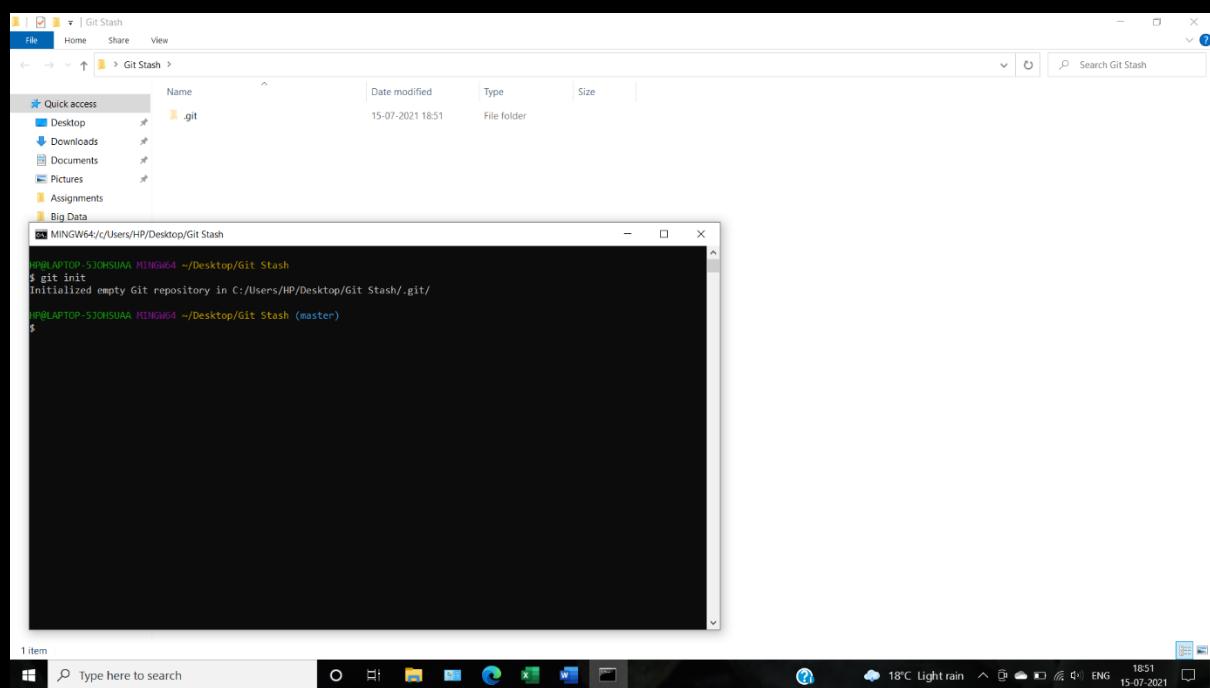
**DATE:** 14/07/2021

**TASK:** Familiarize and illustrate basic GIT commands.

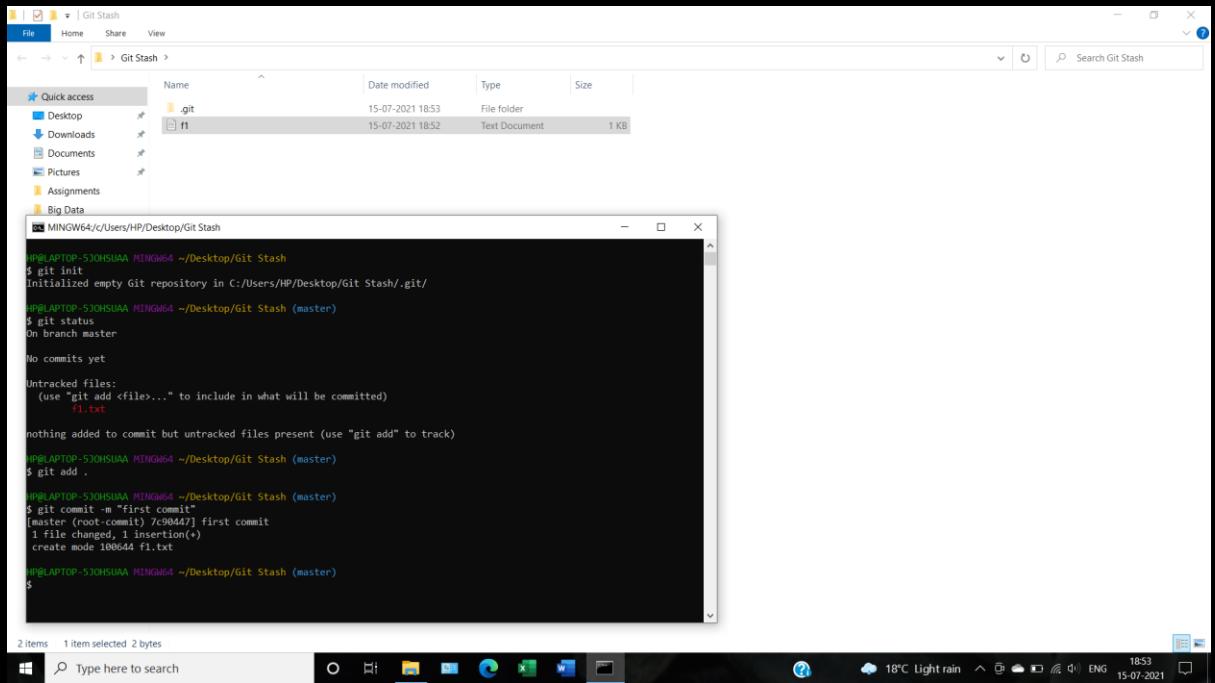
**WORKING DIRECTORY:** Git Stash

**COMMANDS USED:**

**1. *Created ‘Git Stash’ folder and executed init command:***



## 2. Add file 'f1.txt' and committed it:



```
HP\APTOP-5JOHSUAA MINGW64 ~/Desktop/Git Stash
$ git init
Initialized empty Git repository in C:/Users/HP/Desktop/Git Stash/.git/
HP\APTOP-5JOHSUAA MINGW64 ~/Desktop/Git Stash (master)
$ git status
On branch master
No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    f1.txt

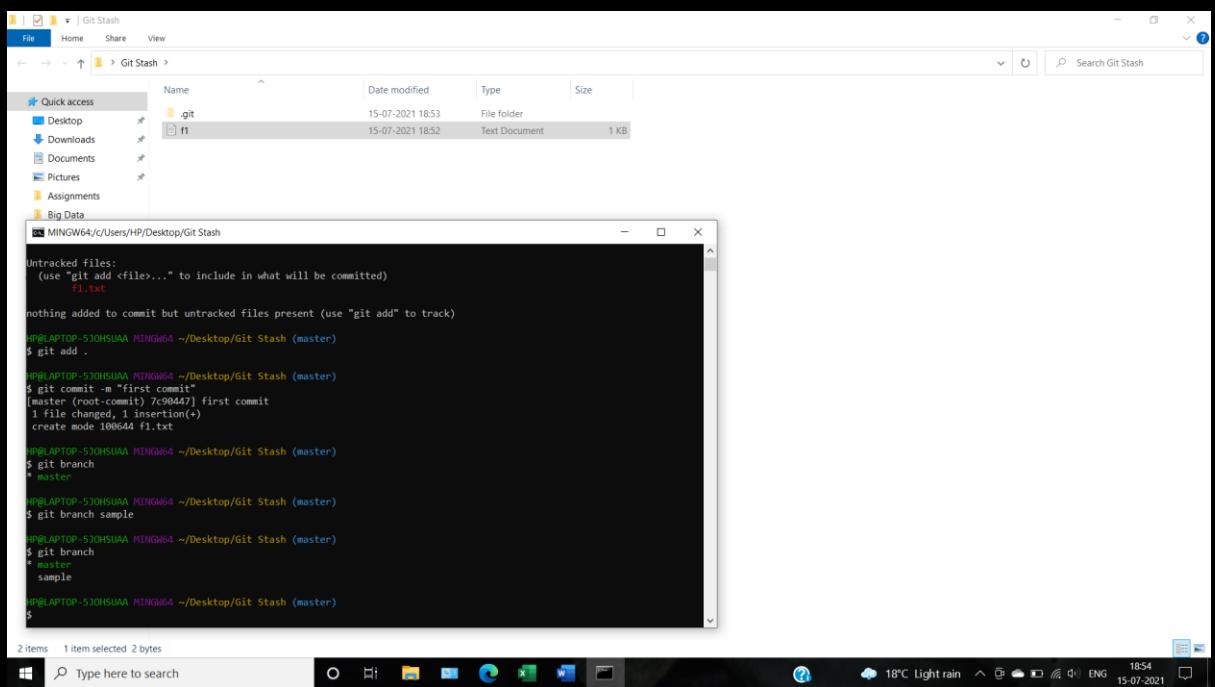
nothing added to commit but untracked files present (use "git add" to track)

HP\APTOP-5JOHSUAA MINGW64 ~/Desktop/Git Stash (master)
$ git add .

HP\APTOP-5JOHSUAA MINGW64 ~/Desktop/Git Stash (master)
$ git commit -m "first commit"
[master (root-commit) 7c98447] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 f1.txt

HP\APTOP-5JOHSUAA MINGW64 ~/Desktop/Git Stash (master)
$
```

## 3. Created another branch 'sample':



```
HP\APTOP-5JOHSUAA MINGW64 ~/Desktop/Git Stash
$ git branch
* master

HP\APTOP-5JOHSUAA MINGW64 ~/Desktop/Git Stash (master)
$ git branch sample
* master
  sample

HP\APTOP-5JOHSUAA MINGW64 ~/Desktop/Git Stash (master)
$
```

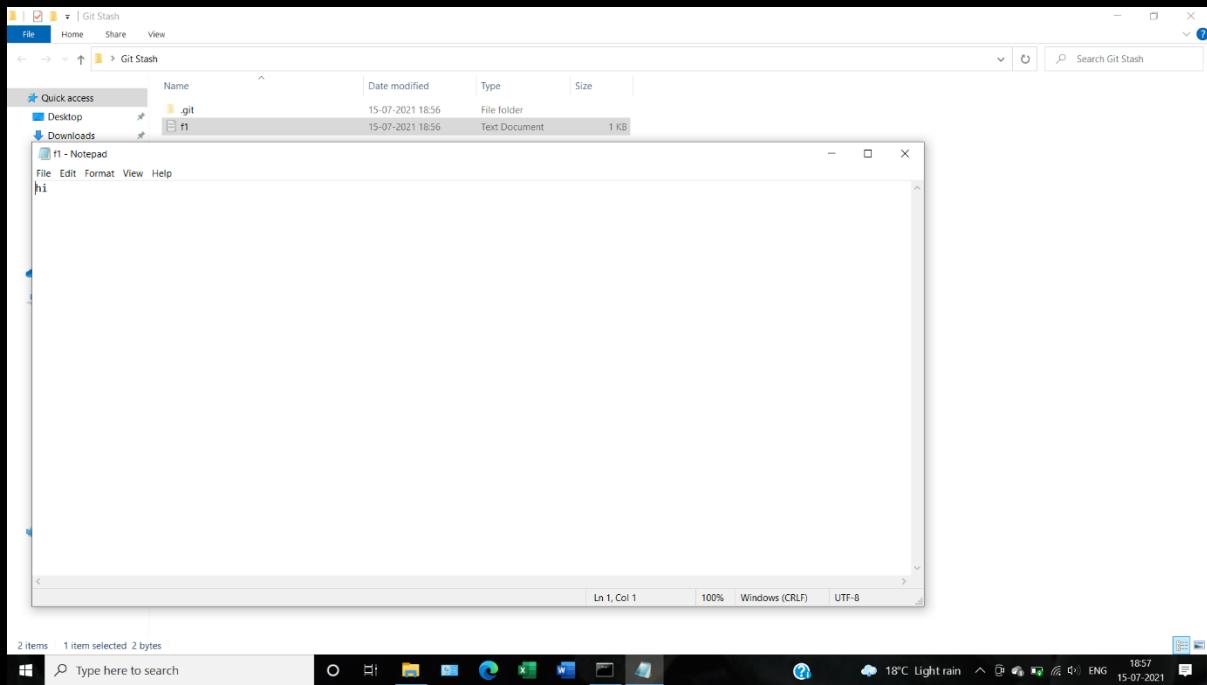
## 4. Checked out to ‘sample’ branch:

```
nothing added to commit but untracked files present (use "git add" to track)
$ git add .
$ git commit -m "first commit"
[master (root-commit) 7c90447] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 f1.txt
$ git branch
* master
$ git branch sample
$ git checkout sample
Switched to branch 'sample'
$
```

## 5. Edited file ‘f1.txt’:

```
$ git add .
$ git commit -m "first commit"
[master (root-commit) 7c90447] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 f1.txt
$ git branch
* master
$ git branch sample
$ git checkout sample
Switched to branch 'sample'
$ git add .
$
```

## **6. Executed stash command and viewed changes in 'f1.txt' file:**



```
$ git commit -m "First commit"
[master (root-commit) 7c90447] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 f1.txt

$ git branch sample
* master

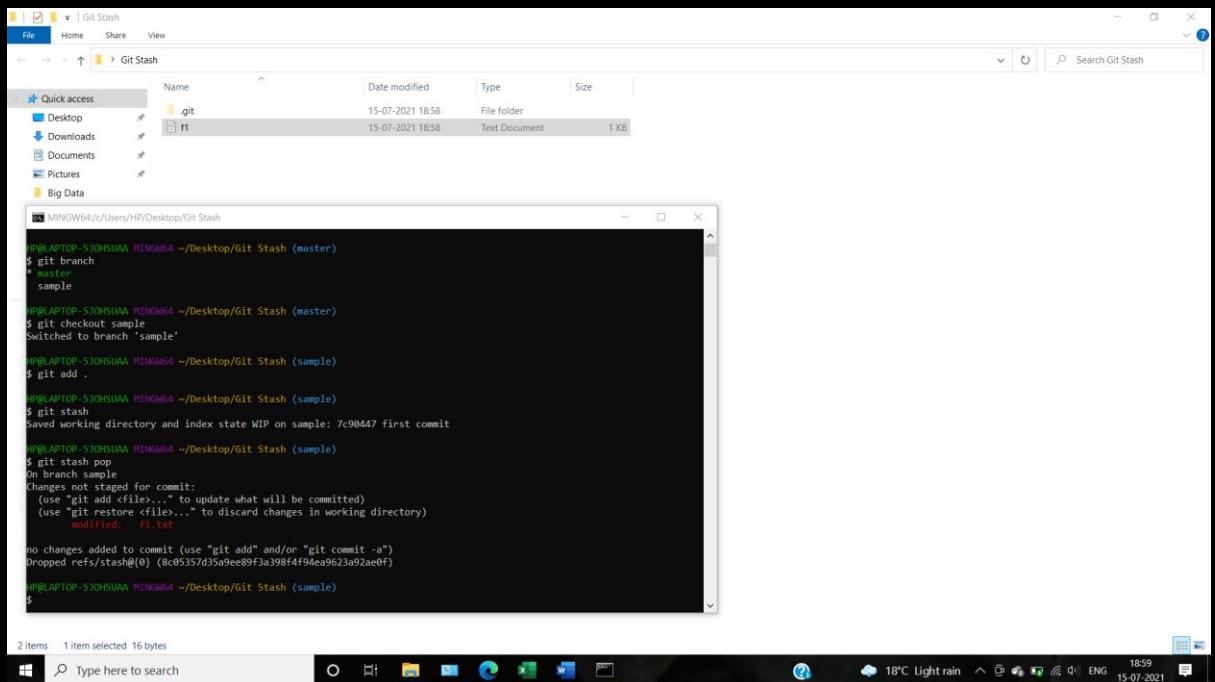
$ git checkout sample
Switched to branch 'sample'

$ git add .
$ git commit -m "Initial commit on sample branch"
[origin/sample 7c90447] Initial commit on sample branch
 1 file changed, 1 insertion(+)
 create mode 100644 f1.txt

$ git push -u origin sample
```

A screenshot of a Windows desktop environment. In the center, there is a Windows File Explorer window titled "Git Stash". The contents pane shows a folder named ".git" and a file named "f1". Below the file explorer is a terminal window showing the execution of several Git commands. The commands include committing changes to the master branch, creating a new branch named "sample", switching to the "sample" branch, adding the "f1.txt" file to the index, committing the changes to the "sample" branch, and finally pushing the changes up to the remote repository. The terminal window is located on the desktop, and at the bottom of the screen is a taskbar with various icons and a system tray showing the date and time as 15-07-2021.

## ***7. Executed git stash pop command:***



The screenshot shows a Windows desktop environment. At the top is a taskbar with icons for Start, File Explorer, Task View, and others. The system tray shows the date as 15-07-2021, the time as 18:59, and the weather as 18°C Light rain.

The main area features two windows:

- File Explorer (Git Stash):** Shows a folder structure with 'Desktop', 'Downloads', 'Documents', 'Pictures', and 'Big Data'. Inside 'Desktop' is a '.git' folder and a file named 'f1'. The 'f1' file was modified on 15-07-2021 at 18:58 and is 1 KB in size.
- Terminal Window:** Titled 'MINGW64/c/Users/HP/Desktop/Git Stash (master)'. The session log is as follows:

```
$ git branch
* master
  sample

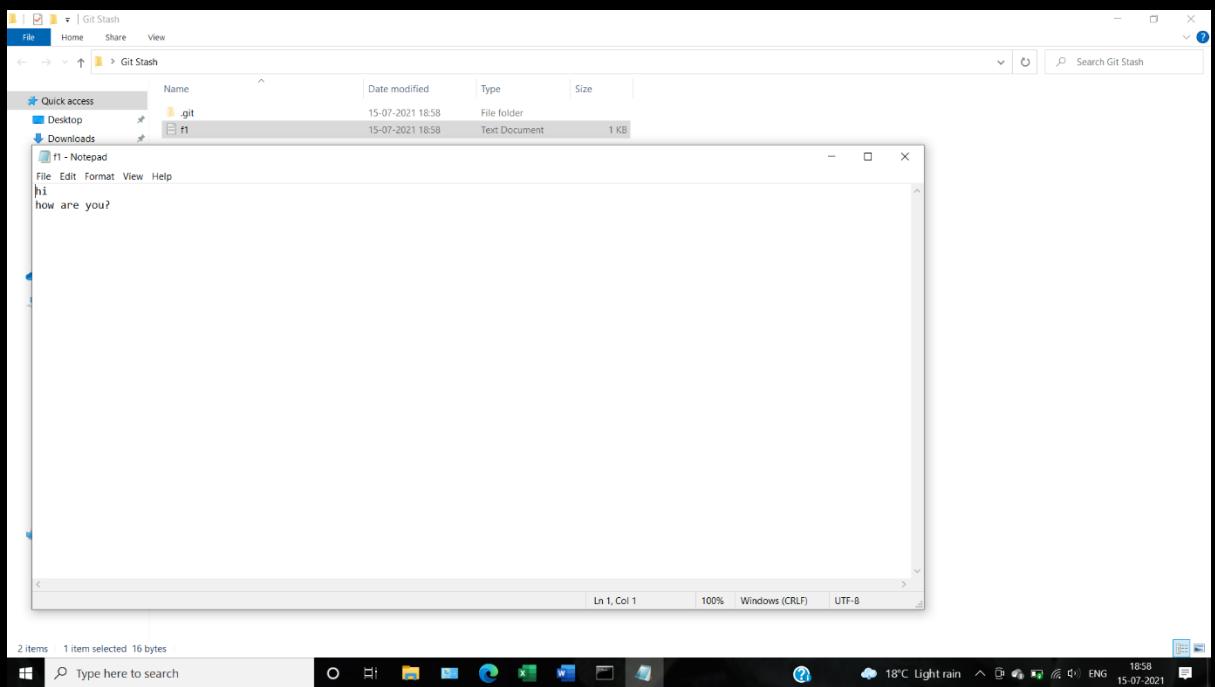
$ git checkout sample
Switched to branch 'sample'

$ git add .
$ git stash
Saved working directory and index state NIP on sample: 7c90447 first commit

$ git stash pop
On branch sample
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:   f1.txt

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (8c05357d35a9ee89f3a398f4f94e9623a92ae0f)

$
```



The screenshot shows a Windows desktop environment, identical to the one above, with the same taskbar and system tray.

The main area features two windows:

- File Explorer (Git Stash):** Shows the same folder structure as the previous screenshot, with a '.git' folder and a 'f1' file in the 'Desktop' folder.
- Notepad Window:** Titled 'f1 - Notepad'. The content of the file is:

```
hi
how are you?
```

---

**Submitted By:**

Ms. Divya Reji  
7, S4,  
MCA Dept., AJCE

**Submitted To:**

Ms. Anit James  
Asst. Professor,  
MCA Dept., AJCE