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REGISTRATION No. – 2141016019

ASSIGNMENT 2

Version Control with Git - Initialize a new Git repository, simulate making changes to a project by adding text files, and commit those changes. Create a new branch, make further changes in this branch, and merge it back to the main branch, resolving a simulated merge conflict.

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop
$ mkdir GIT_Assignments
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop
$ cd GIT_Assignments
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments
$ mkdir Assignment2
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments
$ cd Assignment2
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2
$ git init
Initialized empty Git repository in C:/Users/HP/OneDrive/Desktop/GIT_Assignments
/Assignment2/.git/
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master)
$ echo "Hello" > file1.txt
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master)
$ git add file1.txt
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the nex
t time Git touches it
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master)
$ git commit -m "Initial commit with file1.txt"
[master (root-commit) e2e62e4] Initial commit with file1.txt
 1 file changed, 1 insertion(+)
 create mode 100644 file1.txt
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master)
$ git checkout -b Wipro
Switched to a new branch 'Wipro'
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (Wipro)
$ echo "Adding a new feature to the file" >> file1.txt
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (Wipro)
$ git add file1.txt
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the nex
t time Git touches it
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (Wipro)
$ git commit -m "Updated file1.txt"
[Wipro 945f042] Updated file1.txt
 1 file changed, 1 insertion(+)
```

```
HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (Wipro)
$ git checkout master
Switched to branch 'master'

HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master)
$ echo "Updating the file with different change." >> file1.txt

HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master)
$ git add file1.txt
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the nex
t time Git touches it

HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master)
$ git commit -m "Updated file1.txt in master with a conflicting change."
[master 4263563] Updated file1.txt in master with a conflicting change.
 1 file changed, 1 insertion(+)

HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master)
$ git merge Wipro
Auto-merging file1.txt
CONFLICT (content): Merge conflict in file1.txt
Automatic merge failed; fix conflicts and then commit the result.

HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master|MERGING
)
$ git add file1.txt

HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master|MERGING)
$ git commit -m "Conflict Resolved"
[master 51a1117] Conflict Resolved

HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master)
$ git log
commit 51a11177f90bed557d3406dcb5ad7193c011cd8a (HEAD -> master)
Merge: 4263563 945f042
Author: Shipra Pal <shiprapal114@gmail.com>
Date:   Thu Apr 3 11:17:26 2025 +0530

    Conflict Resolved

commit 426356399b5b7489852ea00f5e767b6d43f63e58
Author: Shipra Pal <shiprapal114@gmail.com>
Date:   Thu Apr 3 11:10:28 2025 +0530

    Updated file1.txt in master with a conflicting change.

commit 945f042d90874f7adb348320e4c329b1f37f8cc4 (Wipro)
Author: Shipra Pal <shiprapal114@gmail.com>
Date:   Thu Apr 3 11:05:54 2025 +0530

    Updated file1.txt

commit e2e62e4cb6c855ed9ff09544b72e00d730da6cd2
Author: Shipra Pal <shiprapal114@gmail.com>
Date:   Thu Apr 3 11:02:38 2025 +0530

HP@SHIPRA MINGW64 ~/OneDrive/Desktop/GIT_Assignments/Assignment2 (master)
$ git log --oneline
51a1117 (HEAD -> master) Conflict Resolved
4263563 Updated file1.txt in master with a conflicting change.
945f042 (Wipro) Updated file1.txt
e2e62e4 Initial commit with file1.txt
```

| file1.txt | file1.txt | × | + |

File   Edit   View

```
Hello
Updating the file with different change.
Adding a new feature to the file
```