CONFLICTS RESOLVE DEMO

Step 1: Creating Conflict Situation by creating a file and making commits to it

```
admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict
$ git init
Initialized empty Git repository in F:/Conflict/.git/

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ vi file1.txt

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ cat file1.txt
Hi I am Rohan Bhavsar

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git add .
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git commit "Master Commit 1"
error: pathspec 'Master Commit 1' did not match any file(s) known to git

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git commit -m "Master Commit 1"
[master (root-commit) 8ad93b6] Master Commit 1
 1 file changed, 1 insertion(+)
 create mode 100644 file1.txt

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ vi file1.txt

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ cat file1.txt
Hi I am Rohan Bhavsar
How are you?

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git add file1.txt; git commit -m "Master commit 2"
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it
[master 5573063] Master commit 2
 1 file changed, 1 insertion(+)

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ |
```

```
admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git log --oneline
5573063 (HEAD -> master) Master commit 2
8ad93b6 Master Commit 1

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git branch branch2

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git checkout branch2
Switched to branch 'branch2'

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (branch2)
$ git log --oneline
5573063 (HEAD -> branch2, master) Master commit 2
8ad93b6 Master Commit 1

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (branch2)
$ vi file1.txt

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (branch2)
$ cat file1.txt
Hi I am Rohan Bhavsar
How are you?
I am Fine what about you?

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (branch2)
$ git add file1.txt; git commit -m "Branch 2 commit"
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it
[branch2 c0ffb82] Branch 2 commit
 1 file changed, 1 insertion(+)

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (branch2)
$ git log --oneline
c0ffb82 (HEAD -> branch2) Branch 2 commit
5573063 (master) Master commit 2
8ad93b6 Master Commit 1

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (branch2)
$
```

Step 2: Merging file, But due to conflict it not getting merge

```
admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (branch2)
$ git log --oneline
c0ffb82 (HEAD -> branch2) Branch 2 commit
5573063 (master) Master commit 2
8ad93b6 Master Commit 1

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (branch2)
$ git checkout master
Switched to branch 'master'

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ cat file1.txt
Hi I am Rohan Bhavsar
How are you?

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ vi file1.txt

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git add file1.txt; git commit -m "Master commit 3"
[master 0fff16d] Master commit 3
 1 file changed, 1 insertion(+)

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git log --oneline
0fff16d (HEAD -> master) Master commit 3
5573063 Master commit 2
8ad93b6 Master Commit 1

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git merge branch2
Auto-merging file1.txt
CONFLICT (content): Merge conflict in file1.txt
Automatic merge failed; fix conflicts and then commit the result.
```

Step 3: File showing conflict Situation

```
admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master|MERGING)
$ cat file1.txt
Hi I am Rohan Bhavsar
How are you?
<<<<<<< HEAD
I am fine master
=======
I am Fine what about you?
>>>>>>> branch2
```

Step 4: Resolving Conflict by manually editing file

```
admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master|MERGING)
$ vi file1.txt

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master|MERGING)
$ cat file1.txt
Hi I am Rohan Bhavsar
How are you?
I am fine master
I am Fine what about you?
```

Step 5: Merging file using Merged Conflict

```
admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master|MERGING)
$ git add file.txt; git commit -m "Merged Commit"
fatal: pathspec 'file.txt' did not match any files
error: Committing is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
U       file1.txt

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master|MERGING)
$ git add file1.txt; git commit -m "Merged Commit"
[master b44c965] Merged Commit

admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git log --oneline
b44c965 (HEAD -> master) Merged Commit
0fff16d Master commit 3
c0ffb82 (branch2) Branch 2 commit
5573063 Master commit 2
8ad93b6 Master Commit 1
```

Step 6: Showing Graphical Representation of Commit log

```
admin@DESKTOP-CTHQ27A MINGW64 /f/Conflict (master)
$ git log --oneline --graph
*   b44c965 (HEAD -> master) Merged Commit
|\
| * c0ffb82 (branch2) Branch 2 commit
* | 0fff16d Master commit 3
|/
* 5573063 Master commit 2
* 8ad93b6 Master Commit 1
```