

GIT EXERCISE

Action	Command Used
Create Repository	git init
Check status	git status
Add untracked files to staging area	git add .
Commit	git commit -m "message"
Add files to staging area and commit in one go	git commit -am "message"
Remove file	git rm <file-name>
Add .gitignore fle	touch .gitignore
Check difference	git diff <file-name> or git diff head
Revert untracked changes	git checkout <file-name>
Revert tracked changes	git reset
Revert committed changes	git reset --hard <commit-hash>
Display all commits	git log
Display specific commit	git show <commit-hash>
Create branch	git checkout -b <branch-name>
Delete branch	git branch -d <branch-name>
Merge branch	git merge <branch-name>
Rebase branch	git rebase <branch-name>
Stash changes	git stash
Retrieve stashed changes	git stash apply
Add local repository to github	git remote add origin <github-repo-url>
Push chnages to remote	git push -u origin <branch- names>
List all branches(local + remote)	git branch -a
List all remote branches	git branch -r

1. Create a repository

```
C:\>cd C:\Users\Naresh Sharma\Documents\gitTrack
C:\Users\Naresh Sharma\Documents\gitTrack>mkdir exercise1_repo1
C:\Users\Naresh Sharma\Documents\gitTrack>cd exercise1_repo1
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git init
Initialized empty Git repository in C:/Users/Naresh Sharma/Documents/gitTrack/exercise1_repo1/.git/
```

2. Make some changes -- add some files, change content of some files

Added two untracked files.

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master

No commits yet

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

        TestFile.txt
        hello.rb

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

Added these untracked files to staging area using command git add .

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master

No commits yet

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

        new file:   TestFile.txt
        new file:   hello.rb
```

3. commit changes

Committed changes to repository using git commit -m "Initial commit"

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "Initial commit"
[master (root-commit) 59870c0] Initial commit
2 files changed, 2 insertions(+)
create mode 100644 TestFile.txt
create mode 100644 hello.rb
```

Again modified TestFile.txt and checked the diff using git diff TestFile.txt

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff TestFile.txt
diff --git a/TestFile.txt b/TestFile.txt
index ff49900..6394437 100644
--- a/TestFile.txt
+++ b/TestFile.txt
@@ -1,1 @@
-This is test file.
\ No newline at end of file
+This is modified test file.
\ No newline at end of file

```

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   TestFile.txt

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

```

commit changes

Added modified file to staging area and the committed.

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "Added modified content"
[master 5d03cb4] Added modified content
1 file changed, 1 insertion(+), 1 deletion(-)

```

4. repeat steps 1-3 for 2 more times. try to remove and ignore some files . Use git diff before each commit.

Repeated steps 1-3 first time

```

C:\Users\Naresh Sharma\Documents\gitTrack>mkdir exercise1_repo2
C:\Users\Naresh Sharma\Documents\gitTrack>cd exercise1_repo2
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo2>git init
Initialized empty Git repository in C:/Users/Naresh Sharma/Documents/gitTrack/exercise1_repo2/.git/

```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo2>git status
On branch master

No commits yet

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

        helloWorld.rb
        repoTest.txt

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

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo2>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo2>git status
On branch master

No commits yet

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

        new file:   helloWorld.rb
        new file:   repoTest.txt
```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo2>git commit -m "Initial commit in repo2"
[master (root-commit) fb1b9e4] Initial commit in repo2
 2 files changed, 2 insertions(+)
 create mode 100644 helloWorld.rb
 create mode 100644 repoTest.txt
```

Repeated steps 1-3 second time

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo2>cd..

C:\Users\Naresh Sharma\Documents\gitTrack>mkdir exercise1_repo3

C:\Users\Naresh Sharma\Documents\gitTrack>cd exercise1_repo3

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo3>git init
Initialized empty Git repository in C:/Users/Naresh Sharma/Documents/gitTrack/exercise1_repo3/.git/
```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo3>git status
On branch master

No commits yet

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

        repo3.rb
        repo3Test.txt

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

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo3>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo3>git status
On branch master

No commits yet

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

        new file:   repo3.rb
        new file:   repo3Test.txt
```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo3>git commit -m "Initial commit for repo3"
[master (root-commit) 790db66] Initial commit for repo3
 2 files changed, 2 insertions(+)
 create mode 100644 repo3.rb
 create mode 100644 repo3Test.txt
```

Remove File from git repository using git rm hello.rb

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git rm hello.rb
rm 'hello.rb'
```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>dir
Volume in drive C is Windows-SSD
Volume Serial Number is 986F-C80D

Directory of C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1

10/31/2019  05:41 PM    <DIR>          .
10/31/2019  05:41 PM    <DIR>          ..
10/31/2019  04:41 PM                27 TestFile.txt
               1 File(s)                27 bytes
               2 Dir(s)  413,330,501,632 bytes free
```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "deleted hello.rb file"
[master 896db32] deleted hello.rb file
1 file changed, 1 deletion(-)
delete mode 100644 hello.rb
```

Added .gitignore file to the repository using touch .gitignore

```
Naresh Sharma@LAPTOP-G4VSK08C MINGW64 ~/Documents/gitTrack/exercise1_repo1 (master)
$ touch .gitignore
```

5. create changes and revert those changes using git when those changes are not added to staging are

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   TestFile.txt

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

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff TestFile.txt
diff --git a/TestFile.txt b/TestFile.txt
index 6394437..b36a851 100644
--- a/TestFile.txt
+++ b/TestFile.txt
@@ -1,2 @@
-This is modified test file.
\ No newline at end of file
+This is modified test file.
+Adding text for reverting changes before staging.
\ No newline at end of file
```

Command used :- git checkout TestFile.txt

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git checkout TestFile.txt
Updated 1 path from the index

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
nothing to commit, working tree clean
```

6. create changes and revert those changes after adding changes to staging area

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   TestFile.txt

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

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff TestFile.txt
diff --git a/TestFile.txt b/TestFile.txt
index 6394437..a058247 100644
--- a/TestFile.txt
+++ b/TestFile.txt
@@ -1,2 @@
-This is modified test file.
\ No newline at end of file
+This is modified test file.^M
+Addin text to add to staging area.
\ No newline at end of file
```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   TestFile.txt

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff TestFile.txt
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>
```

Command Used :- git reset

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git reset
Unstaged changes after reset:
M       TestFile.txt

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   TestFile.txt

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

7. create change and revert those changes after committing those changes .

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   TestFile.txt

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "Added modified content"
[master 8574a0a] Added modified content
1 file changed, 2 insertions(+), 1 deletion(-)
```



```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git log
commit 8574a0a9e470bc5cd10dfdb9eb883300daf73f2a (HEAD -> master)
Author: Naresh Sharma <naresh@vinsol.com>
Date: Thu Oct 31 18:03:38 2019 +0530

    Added modified content

commit 896db32cc40206c8fdc8c6e3e1798e34e969828d
Author: Naresh Sharma <naresh@vinsol.com>
Date: Thu Oct 31 17:50:52 2019 +0530

    deleted hello.rb file

commit 5d03cb475f1fe6697c84b103b29342fa4956f248
Author: Naresh Sharma <naresh@vinsol.com>
Date: Thu Oct 31 16:45:38 2019 +0530

    Added modified content

commit 59870c0a95d215856188e5cd345465ccee5142af
Author: Naresh Sharma <naresh@vinsol.com>
Date: Thu Oct 31 16:34:13 2019 +0530

    Initial commit

```

Command Used : - git reset --hard <commit-hash>

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
nothing to commit, working tree clean

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git reset --hard 5d03cb475f1fe6697c84b103b29342fa4956f248
HEAD is now at 5d03cb4 Added modified content

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git log
commit 5d03cb475f1fe6697c84b103b29342fa4956f248 (HEAD -> master)
Author: Naresh Sharma <naresh@vinsol.com>
Date: Thu Oct 31 16:45:38 2019 +0530

    Added modified content

commit 59870c0a95d215856188e5cd345465ccee5142af
Author: Naresh Sharma <naresh@vinsol.com>
Date: Thu Oct 31 16:34:13 2019 +0530

    Initial commit

```

8. Check repository status before adding changes to staging area, after adding changes to staging area and after committing changes .

before adding changes to staging area

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   hello.rb

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

after adding changes to staging area

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add hello.rb

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   hello.rb
```

after committing changes

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "Adding comment to hello.rb file"
[master 4363e70] Adding comment to hello.rb file
 1 file changed, 1 insertion(+)

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
nothing to commit, working tree clean
```

9. Display all the commits .

Command :- git log

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git log
commit 4363e709bc3cfff419817a0b82402c912396ce160 (HEAD -> master)
Author: Naresh Sharma <naresh@vinsol.com>
Date: Thu Oct 31 18:25:11 2019 +0530

    Adding comment to hello.rb file

commit 5d03cb475f1fe6697c84b103b29342fa4956f248
Author: Naresh Sharma <naresh@vinsol.com>
Date: Thu Oct 31 16:45:38 2019 +0530

    Added modified content

commit 59870c0a95d215856188e5cd345465ccee5142af
Author: Naresh Sharma <naresh@vinsol.com>
Date: Thu Oct 31 16:34:13 2019 +0530

    Initial commit

```

10. Display a specific commit .

Command :- git show <commit-hash>

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git show 4363e709bc3cfff419817a0b82402c912396ce160
commit 4363e709bc3cfff419817a0b82402c912396ce160 (HEAD -> master)
Author: Naresh Sharma <naresh@vinsol.com>
Date: Thu Oct 31 18:25:11 2019 +0530

    Adding comment to hello.rb file

diff --git a/hello.rb b/hello.rb
index d945f15..e14180a 100644
--- a/hello.rb
+++ b/hello.rb
@@ -1,2 @@
+#Adding comment
 puts "hello world"
\ No newline at end of file

```

11. create branches called "feature1" and "feature2" from master.

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git checkout -b feature1
Switched to a new branch 'feature1'

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch feature1
nothing to commit, working tree clean

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>

```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git checkout master
Switched to branch 'master'

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git checkout -b feature2
Switched to a new branch 'feature2'

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>
```

Delete branch "feature2".

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git checkout master
Switched to branch 'master'

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git branch -d feature2
Deleted branch feature2 (was 4363e70).
```

12. Make some commits on "feature1".

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff HEAD
diff --git a/TestFile.txt b/TestFile.txt
index 6394437..b070daa 100644
--- a/TestFile.txt
+++ b/TestFile.txt
@@ -1,3 @@
-This is modified test file.
\ No newline at end of file
+This is modified test file.^M
+^M
+Adding content in feature1 branch.
\ No newline at end of file

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "Adding content for feature branch"
[feature1 8553976] Adding content for feature branch
1 file changed, 3 insertions(+), 1 deletion(-)
```

13. Make some commits on branch "master".

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff head
diff --git a/TestFile.txt b/TestFile.txt
index 6394437..edc9f28 100644
--- a/TestFile.txt
+++ b/TestFile.txt
@@ -1,1 @@
-This is modified test file.
\ No newline at end of file
+This is modified test file.Modifying in master to create conflict.
\ No newline at end of file

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "modified content in master to emulate conflict"
[master 04b3fec] modified content in master to emulate conflict
1 file changed, 1 insertion(+), 1 deletion(-)
```

14. merge branch "feature1" in "master" (make some conflicts by changing same file on same line in both the branches)

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git merge feature1
Auto-merging TestFile.txt
CONFLICT (content): Merge conflict in TestFile.txt
Automatic merge failed; fix conflicts and then commit the result.
```

TestFile.txt - Notepad

File Edit Format View Help

<<<<<< HEAD This is modified test file. Modifying in master to create conflict. ===== This is modified test file. Trying to create conflict.

Adding content in feature1 branch.>>>>>> feature1

Resolved conflict and then added the file to staging area and then committed which completed the merge operation.

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)

        both modified:   TestFile.txt

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

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git status
On branch master
All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:

        modified:   TestFile.txt

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "Merging feature1 after resolving conflict"
[master e8ec0bd] Merging feature1 after resolving conflict
```

create branch "feature2" from master .

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git checkout -b feature2
Switched to a new branch 'feature2'
```

15. Make some commits on "feature2".

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff head
diff --git a/TestFile.txt b/TestFile.txt
index ff2285a..40b8dd5 100644
--- a/TestFile.txt
+++ b/TestFile.txt
@@ -1,2 +1,2 @@

-This is modified test file.Modifying in master to create conflict.Kept content of master branch.
\ No newline at end of file
+This is modified test file.Modifying in feature2 to create conflict.
\ No newline at end of file

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "modified content in feature2 branch"
[feature2 020472f] modified content in feature2 branch
1 file changed, 1 insertion(+), 1 deletion(-)

```

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff head
diff --git a/hello.rb b/hello.rb
index e14180a..6132d41 100644
--- a/hello.rb
+++ b/hello.rb
@@ -1,2 +1,3 @@
 #Adding comment
+# Adding another comment
 puts "hello world"
\ No newline at end of file

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "Added another comment in hello.rb"
[feature2 48e10af] Added another comment in hello.rb
1 file changed, 1 insertion(+)

```

16. Make some commits on branch "master".

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git checkout master
Switched to branch 'master'

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff head
diff --git a/TestFile.txt b/TestFile.txt
index ff2285a..bbd2bd5 100644
--- a/TestFile.txt
+++ b/TestFile.txt
@@ -1,2 +1,2 @@

-This is modified test file.Modifying in master to create conflict.Kept content of master branch.
\ No newline at end of file
+This is modified test file.Modifying in master to create conflict.
\ No newline at end of file

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git commit -m "Modified master text file"
[master 060e3e4] Modified master text file
1 file changed, 1 insertion(+), 1 deletion(-)

```

17. rebase branch "master" in "feature2" (make some conflicts by changing same file on same line in both the branches) .

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git rebase feature2
First, rewinding head to replay your work on top of it...
Applying: Modified master text file
Using index info to reconstruct a base tree...
M       TestFile.txt
Falling back to patching base and 3-way merge...
Auto-merging TestFile.txt
CONFLICT (content): Merge conflict in TestFile.txt
error: Failed to merge in the changes.
hint: Use 'git am --show-current-patch' to see the failed patch
Patch failed at 0001 Modified master text file
Resolve all conflicts manually, mark them as resolved with
"git add/rm <conflicted_files>", then run "git rebase --continue".
You can instead skip this commit: run "git rebase --skip".
To abort and get back to the state before "git rebase", run "git rebase --abort".

```

Modified conflicting file and resolved conflict. Then used git rebase --continue to complete the merge operation

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git rebase --continue
Applying: Modified master text file

```

18. find the differences between "merge" and "rebase" in above cases.

```

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git hist
* 897a5ec 2019-11-01 | Modified master text file (HEAD -> master) [Naresh Sharma]
* 48e10af 2019-11-01 | Added another comment in hello.rb (feature2) [Naresh Sharma]
* 020472f 2019-11-01 | modified content in feature2 branch [Naresh Sharma]
*   e8ec0bd 2019-11-01 | Merging feature1 after resolving conflict [Naresh Sharma]
| \
|  * d22c511 2019-11-01 | trying to create conflict (feature1) [Naresh Sharma]
|  * 8553976 2019-11-01 | Adding content for feature branch [Naresh Sharma]
* | 04b3fec 2019-11-01 | modified content in master to emulate conflict [Naresh Sharma]
| /
* 4363e70 2019-10-31 | Adding comment to hello.rb file [Naresh Sharma]
* 5d03cb4 2019-10-31 | Added modified content [Naresh Sharma]
* 59870c0 2019-10-31 | Initial commit [Naresh Sharma]

```

19. Use git stash

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff head
diff --git a/TestFile.txt b/TestFile.txt
index 8db2fec..16f742d 100644
--- a/TestFile.txt
+++ b/TestFile.txt
@@ -1,3 @@
-Resolving the conflict.
\ No newline at end of file
+Resolving the conflict.^M
+^M
+Adding content to check stashing.
\ No newline at end of file

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git add .

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git stash
Saved working directory and index state WIP on master: 897a5ec Modified master text file
```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git checkout feature1
Switched to branch 'feature1'

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git checkout master
Switched to branch 'master'

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git stash apply
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   TestFile.txt

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

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git diff head
diff --git a/TestFile.txt b/TestFile.txt
index 8db2fec..16f742d 100644
--- a/TestFile.txt
+++ b/TestFile.txt
@@ -1,3 @@
-Resolving the conflict.
\ No newline at end of file
+Resolving the conflict.^M
+^M
+Adding content to check stashing.
\ No newline at end of file
```

20. create a repository on github for your working repository and push changes on remote repository.


```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git remote add origin https://github.com/naresh226/gitTrack.git

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git push -u origin master
Enumerating objects: 34, done.
Counting objects: 100% (34/34), done.
Delta compression using up to 8 threads
Compressing objects: 100% (29/29), done.
Writing objects: 100% (34/34), 3.40 KiB | 386.00 KiB/s, done.
Total 34 (delta 0), reused 0 (delta 0)
To https://github.com/naresh226/gitTrack.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git branch -a
  feature1
  feature2
* master
remotes/origin/master

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git hist
* 89ff668 2019-11-01 | Last commit for now (HEAD -> master, origin/master) [Naresh Sharma]
* 897a5ec 2019-11-01 | Modified master text file [Naresh Sharma]
* 48e10af 2019-11-01 | Added another comment in hello.rb (feature2) [Naresh Sharma]
* 020472f 2019-11-01 | modified content in feature2 branch [Naresh Sharma]
* e8ec0bd 2019-11-01 | Merging feature1 after resolving conflict [Naresh Sharma]
| \
| * d22c511 2019-11-01 | trying to create conflict (feature1) [Naresh Sharma]
| * 8553976 2019-11-01 | Adding content for feature branch [Naresh Sharma]
| * 04b3fec 2019-11-01 | modified content in master to emulate conflict [Naresh Sharma]
| /
* 4363e70 2019-10-31 | Adding comment to hello.rb file [Naresh Sharma]
* 5d03cb4 2019-10-31 | Added modified content [Naresh Sharma]
* 59870c0 2019-10-31 | Initial commit [Naresh Sharma]
```

```
C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git push -u origin feature1 feature2
Total 0 (delta 0), reused 0 (delta 0)
To https://github.com/naresh226/gitTrack.git
 * [new branch]      feature1 -> feature1
 * [new branch]      feature2 -> feature2
Branch 'feature1' set up to track remote branch 'feature1' from 'origin'.
Branch 'feature2' set up to track remote branch 'feature2' from 'origin'.

C:\Users\Naresh Sharma\Documents\gitTrack\exercise1_repo1>git branch -r
  origin/feature1
  origin/feature2
  origin/master
```