

GIT Fetch vs GIT Pull

GIT Fetch vs Pull

Git pull-

It will pull code from remote branch to the local branch.

We can use git pull on any branch. Example we can git pull from remote karan to local karan.

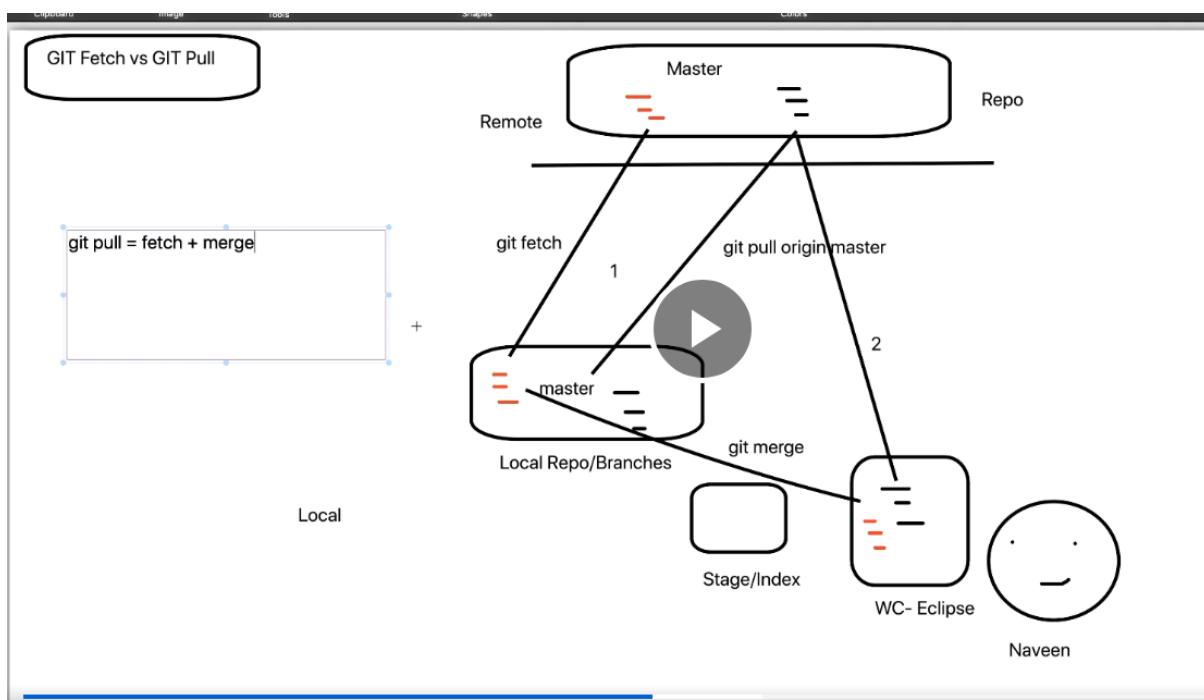
Pull will get the updated copy from remote and bring it in working copy and local repo.

Fetch-

This is same as pull. Instead of giving the updated copy to working copy, it will give the code only to the local repo.

The code wont be displayed in your working copy.

To get the code in your working copy we need to use the git merge.



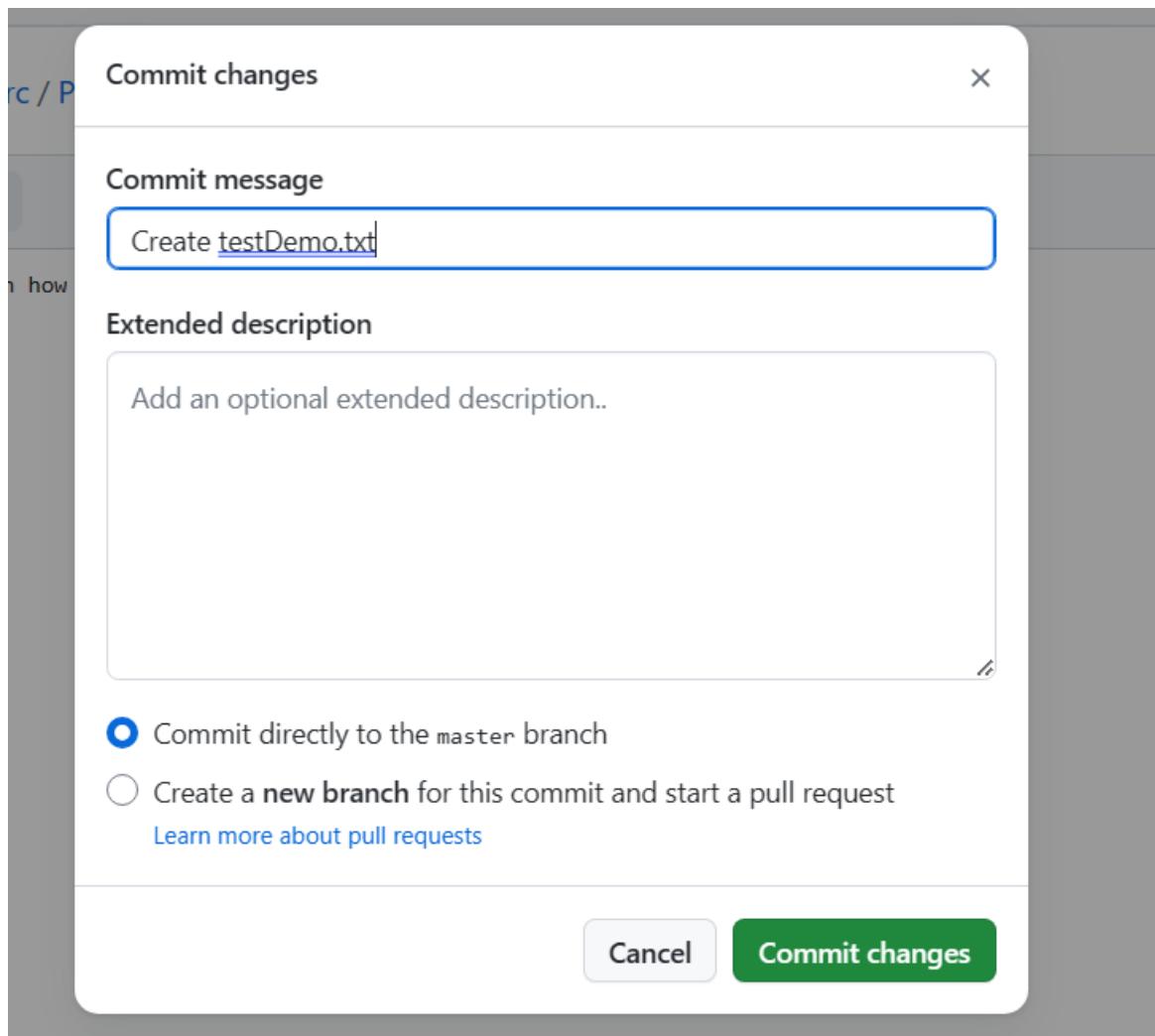
Lets see in practical-

Create file from remote.

The screenshot shows a GitHub repository page for 'GitHubCourse'. The URL in the address bar is <https://github.com/karanAtreya1986/GitHubCourse/tree/master/src/Pages>. The page displays a single file named 'reg page actions code'. The commit message for this file is 'Last commit message'. The repository structure on the left shows a 'src' folder containing 'Pages' and 'Django'.

Commit changes-

The screenshot shows a GitHub commit interface for creating a new file. The URL in the address bar is <https://github.com/karanAtreya1986/GitHubCourse/new/master/src/Pages>. A new file named 'testDemo.txt' is being created in the 'master' branch. The file content is '1 hello karan how are you this is pull versus fetch'. At the top right, there are 'Cancel changes' and 'Commit changes...' buttons.



File present-

Name	Last commit message	Last commit date
HomePage.java	first commit	last week
LoginPage.java	modified page classes	last week
RegPage.java	added some new files	last week
RegPageActions.java	reg page actions code	6 hours ago
SearchPage.java	modified page classes	last week
testDemo.txt	Create testDemo.txt	now

Open git bash-

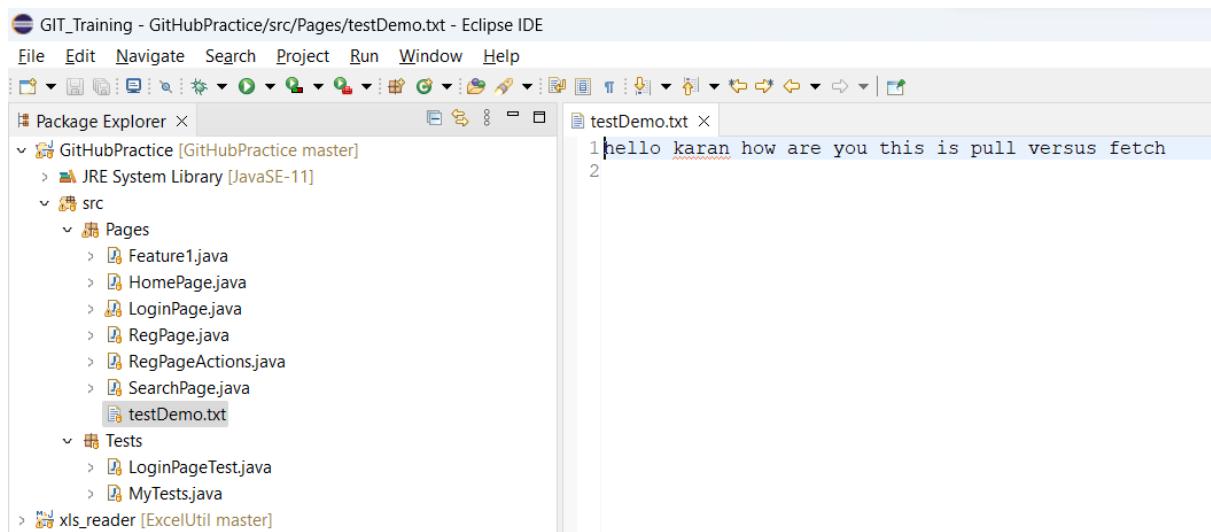
We can write git pull or git pull origin master

```
MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git pull origin master
remote: Enumerating objects: 8, done.
remote: Counting objects: 100% (8/8), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), 859 bytes | 19.00 KiB/s, done.
From https://github.com/karanAtreya1986/GitHubCourse
 * branch           master      -> FETCH_HEAD
   ca66c6e..2e06418  master      -> origin/master
Merge made by the 'ort' strategy.
src/Pages/testDemo.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 src/Pages/testDemo.txt

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$
```

In naveens machine we need to give reason for merge.

Refresh ide and new file seen-



Lets see fetch working-

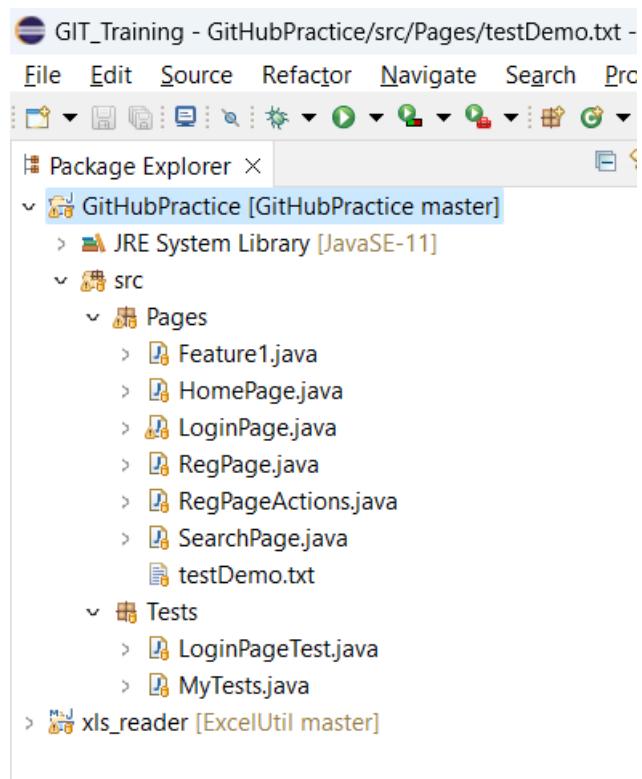
We added new file "hellofetch.txt".

Name	Last commit message	Last commit date
... (empty)		
HomePage.java	first commit	last week
LoginPage.java	modified page classes	last week
RegPage.java	added some new files	last week
RegPageActions.java	reg page actions code	6 hours ago
SearchPage.java	modified page classes	last week
hellofetch.txt	Create hellofetch.txt	now
testDemo.txt	Create testDemo.txt	3 minutes ago

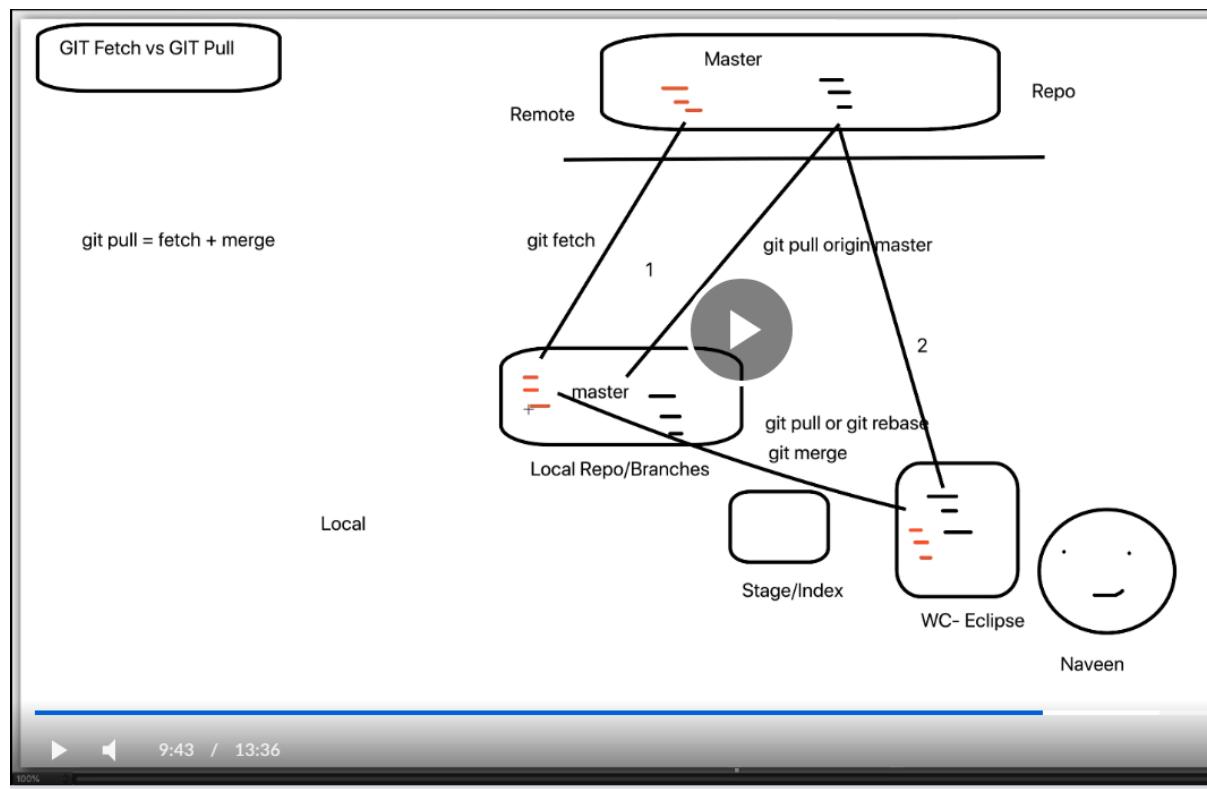
```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git fetch
remote: Enumerating objects: 8, done.
remote: Counting objects: 100% (8/8), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), 848 bytes | 77.00 KiB/s, done.
From https://github.com/karanAtreya1986/GitHubCourse
  2e06418..c076a2f  master      -> origin/master
 * [new tag]        v2.0       -> v2.0

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$
```

Refresh ide and the file not seen-



Then to get the code into ide we use git pull or git rebase for merging purpose-



```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git diff master origin/master
diff --git a/src/Pages/Feature1.java b/src/Pages/Feature1.java
deleted file mode 100644
index f21caf5..0000000
--- a/src/Pages/Feature1.java
+++ /dev/null
@@ -1,13 +0,0 @@
-package Pages;
-
-public class Feature1 {
-
-    public static void main(String[] args) {
-        System.out.println("feature one is developed");
-
-        System.out.println("feature two is developed");
-
-        System.out.println("feature three is developed");
-    }
-
-}
diff --git a/src/Pages/hellofetch.txt b/src/Pages/hellofetch.txt
new file mode 100644
index 0000000..f8fef34
--- /dev/null
+++ b/src/Pages/hellofetch.txt
@@ -0,0 +1 @@
+lets check the fetch command here
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

```

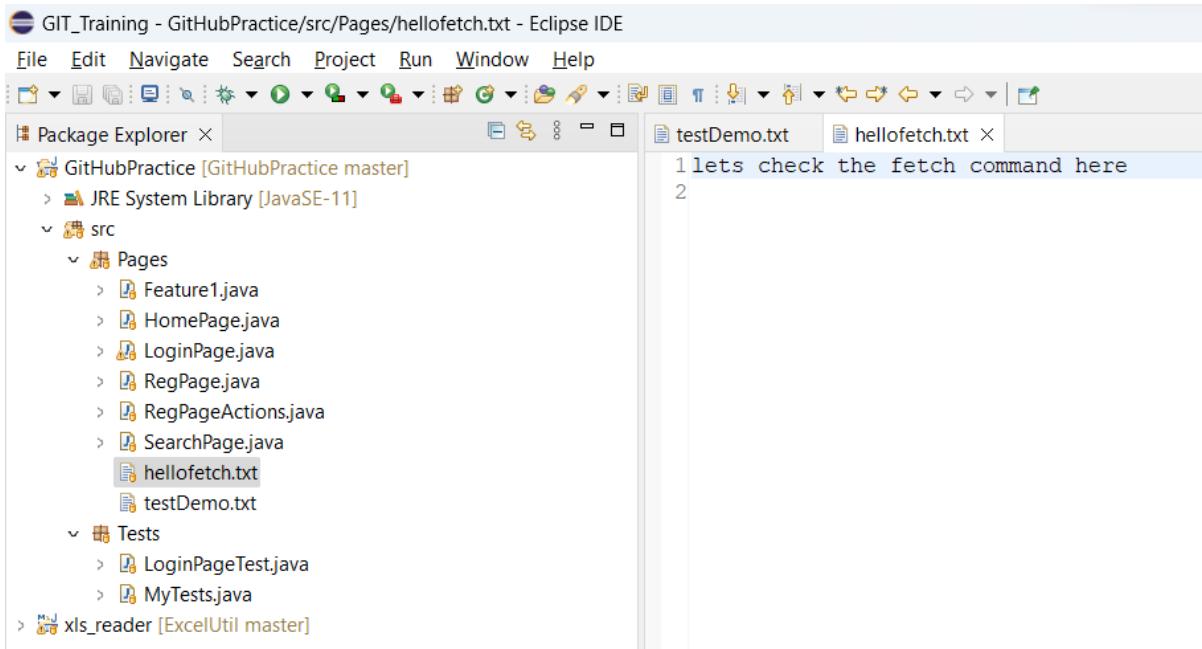
```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git pull origin master
From https://github.com/karanAtreya1986/GitHubCourse
 * branch            master      -> FETCH_HEAD
Merge made by the 'ort' strategy.
 src/Pages/hellofetch.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 src/Pages/hellofetch.txt
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

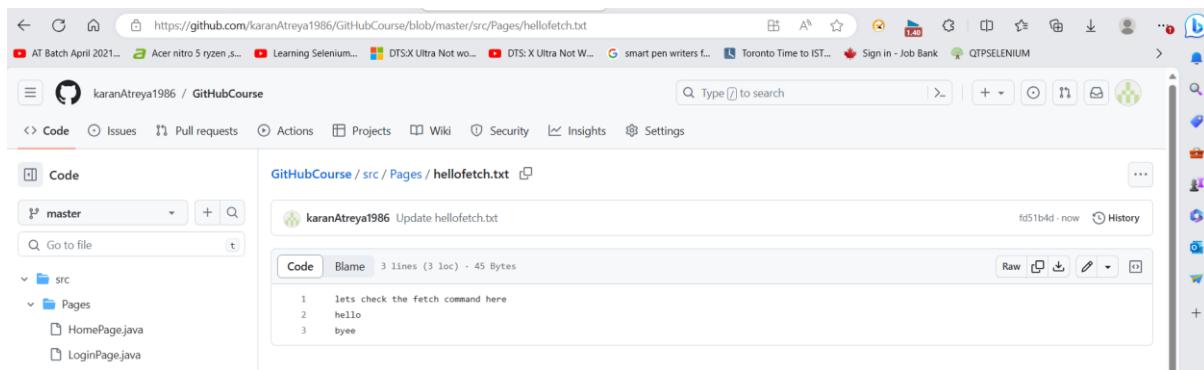
```

In naveens machine write merge message-

Refresh ide and got the file-



Updated code in remote-



```
MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git fetch
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), 839 bytes | 15.00 KiB/s, done.
From https://github.com/karanAtreya1986/GitHubCourse
  c076a2f..fd51b4d master      -> origin/master

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GithubPractice (master)
$ git diff master origin/master
diff --git a/src/Pages/Feature1.java b/src/Pages/Feature1.java
deleted file mode 100644
index f21caf5..0000000
--- a/src/Pages/Feature1.java
+++ /dev/null
@@ -1,13 +0,0 @@
-package Pages;
-
-public class Feature1 {
-
-    public static void main(String[] args) {
-        System.out.println("feature one is developed");
-
-        System.out.println("feature two is developed");
-
-        System.out.println("feature three is developed");
-    }
-
-}
diff --git a/src/Pages/hellofetch.txt b/src/Pages/hellofetch.txt
index f8fef34..5325d41 100644
--- a/src/Pages/hellofetch.txt
+++ b/src/Pages/hellofetch.txt
@@ -1 +1,3 @@
lets check the fetch command here
+hello
+bye

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

For Naveen asking to give reason for merge-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git pull origin master
From https://github.com/karanAtreya1986/GitHubCourse
 * branch            master      -> FETCH_HEAD
Merge made by the 'ort' strategy.
 src/Pages/hellofetch.txt | 2 ++
 1 file changed, 2 insertions(+)

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

Refresh ide and file updated-

