

Merge Conflict with Git Pull

I need to accept other developers code which is in conflict.

```

1 package Pages;
2
3 public class ClassicPage {
4
5     public void classic() {
6         int n=10;
7         int n1=20;
8         int m=n+n1;
9         System.out.println(m);
10    }
11 }
12
13

```

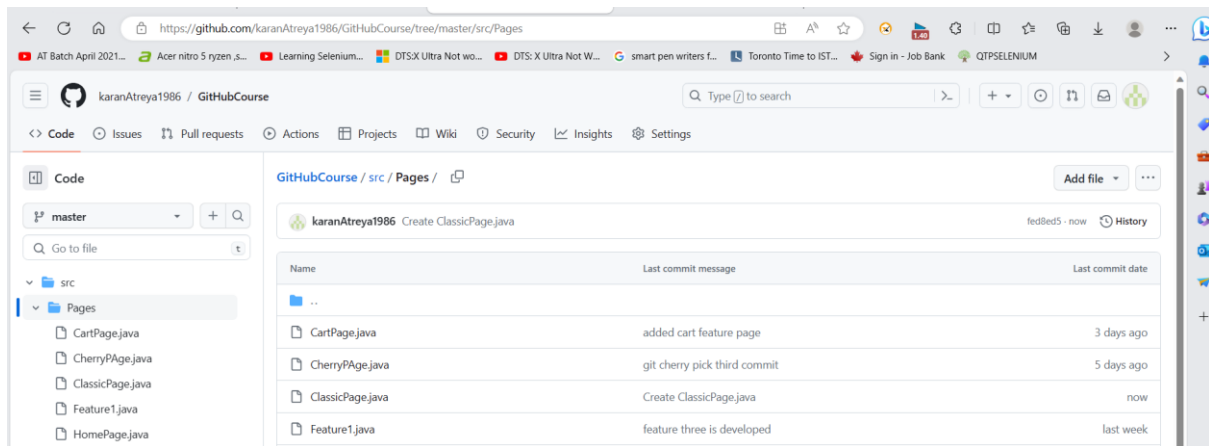
Code already there in remote-

```

1 package Pages;
2
3 public class ClassicPage {
4
5     public void classic() {
6         int k=100;
7         int k1=200;
8         int div=k1/k;
9         System.out.println(div);
10        System.out.println("bye code from remote");
11    }
12
13 }
14

```

Page present-



Try taking pull it doesn't allow-

```
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), 950 bytes | 17.00 KiB/s, done.
From https://github.com/karanAtreya1986/GitHubCourse
* branch          master      -> FETCH_HEAD
   1ce0f6b..fed8ed5 master      -> origin/master
error: The following untracked working tree files would be overwritten by merge:
       src/Pages/ClassicPage.java
Please move or remove them before you merge.
Aborting
Updating 1ce0f6b..fed8ed5

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 add .

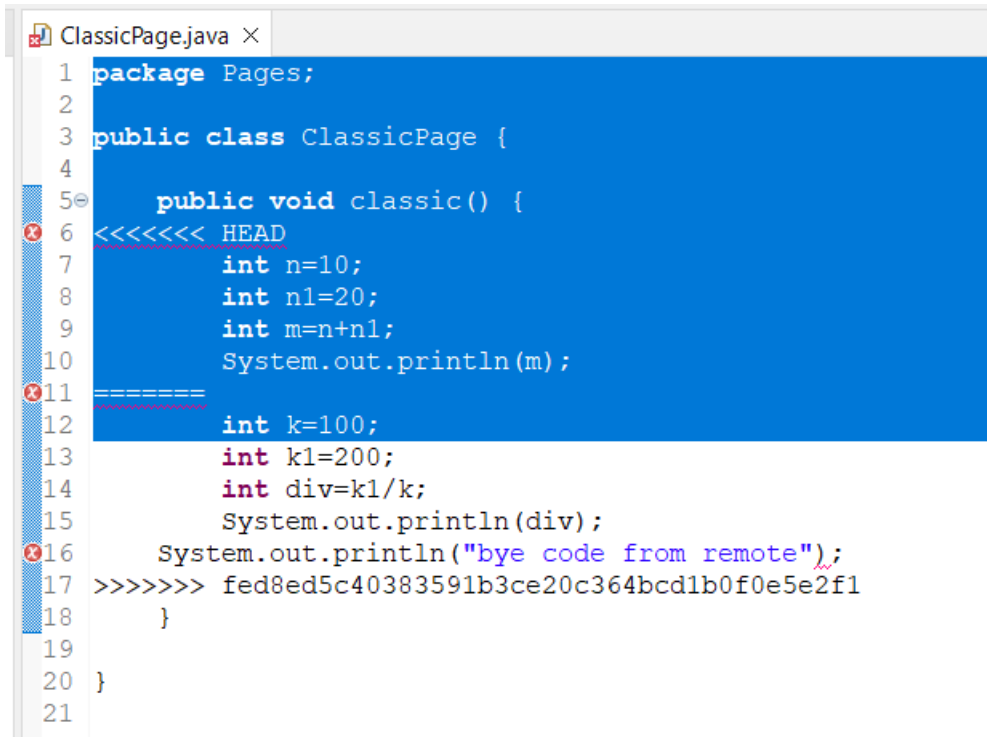
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "added classic page"
[master 5d0979c] added classic page
1 file changed, 12 insertions(+)
create mode 100644 src/Pages/ClassicPage.java

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

Once again conflict-

```
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
Auto-merging src/Pages/ClassicPage.java
CONFLICT (add/add): Merge conflict in src/Pages/ClassicPage.java
Automatic merge failed; fix conflicts and then commit the result.

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



```

1 package Pages;
2
3 public class ClassicPage {
4
5     public void classic() {
6         <<<<<<< HEAD
7             int n=10;
8             int n1=20;
9             int m=n+n1;
10            System.out.println(m);
11            =====
12            int k=100;
13            int k1=200;
14            int div=k1/k;
15            System.out.println(div);
16            System.out.println("bye code from remote");
17            >>>>>>> fed8ed5c40383591b3ce20c364bcd1b0f0e5e2f1
18        }
19    }
20 }
21

```

Head means the last commit. Whatever is below head was done in last commit.

Above "======" means everything from last commit.

```

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master|MERGING)
$ git show head
commit 5d0979c01c417405a1f885b6f23b4fb4c9b7e2fe (HEAD -> master)
Author: karanAtreya1986 <karan1988@gmail.com>
Date:   Fri Aug 11 08:28:00 2023 +0200

    added classic page

diff --git a/src/Pages/ClassicPage.java b/src/Pages/ClassicPage.java
new file mode 100644
index 0000000..b53c147
--- /dev/null
+++ b/src/Pages/ClassicPage.java
@@ -0,0 +1,12 @@
+package Pages;
+
+public class ClassicPage {
+    public void classic() {
+        int n=10;
+        int n1=20;
+        int m=n+n1;
+        System.out.println(m);
+    }
+}

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master|MERGING)
$ git show HEAD
commit 5d0979c01c417405a1f885b6f23b4fb4c9b7e2fe (HEAD -> master)
Author: karanAtreya1986 <karan1988@gmail.com>
Date:   Fri Aug 11 08:28:00 2023 +0200

    added classic page

diff --git a/src/Pages/ClassicPage.java b/src/Pages/ClassicPage.java
new file mode 100644
index 0000000..b53c147
--- /dev/null
+++ b/src/Pages/ClassicPage.java
@@ -0,0 +1,12 @@
+package Pages;
+
+public class ClassicPage {
+    public void classic() {
+        int n=10;
+        int n1=20;
+        int m=n+n1;
+        System.out.println(m);
+    }
+}

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master|MERGING)
$ |

```

We can use “HEAD or head”.

This command will show the last commit.

Below “=====” we can see the merge conflict from the code which had the commit id mentioned-

```

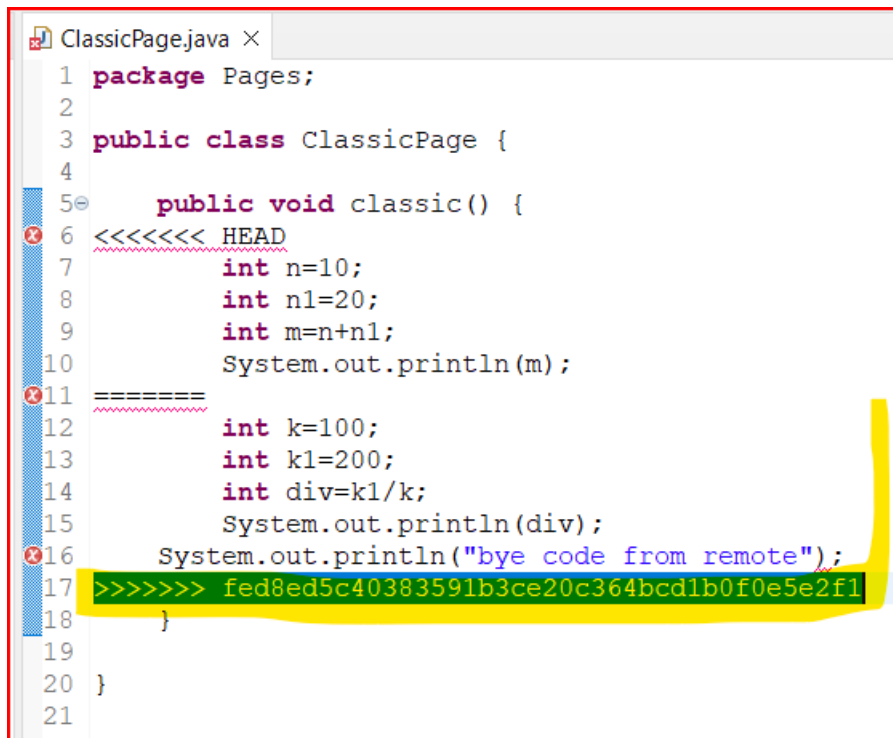
ClassicPage.java x
1 package Pages;
2
3 public class ClassicPage {
4
5     public void classic() {
6         <<<<<<< HEAD
7             int n=10;
8             int n1=20;
9             int m=n+n1;
10            System.out.println(m);
11            =====
12            int k=100;
13            int k1=200;
14            int div=k1/k;
15            System.out.println(div);
16            System.out.println("bye code from remote");
17            >>>>>> fed8ed5c40383591b3ce20c364bcd1b0f0e5e2f1
18        }
19    }
20 }
21

```

To re-verify the commit id-

The screenshot shows the GitHub repository page for 'karanAtreya1986 / GitHubCourse'. The repository is public and has 3 branches and 3 tags. A notification states 'Your master branch isn't protected'. The commit history shows a recent commit by 'karanAtreya1986' titled 'Create ClassicPage.java' with commit ID 'fed8ed5' made 6 minutes ago. This commit has 24 commits in its history. A yellow arrow points to the commit ID 'fed8ed5' in the commit history.

The screenshot shows the commit details page for the commit 'Create ClassicPage.java' by 'karanAtreya1986'. The commit is verified and has a commit ID of 'fed8ed5'. A yellow arrow points to the commit ID 'fed8ed5' in the commit details.



```

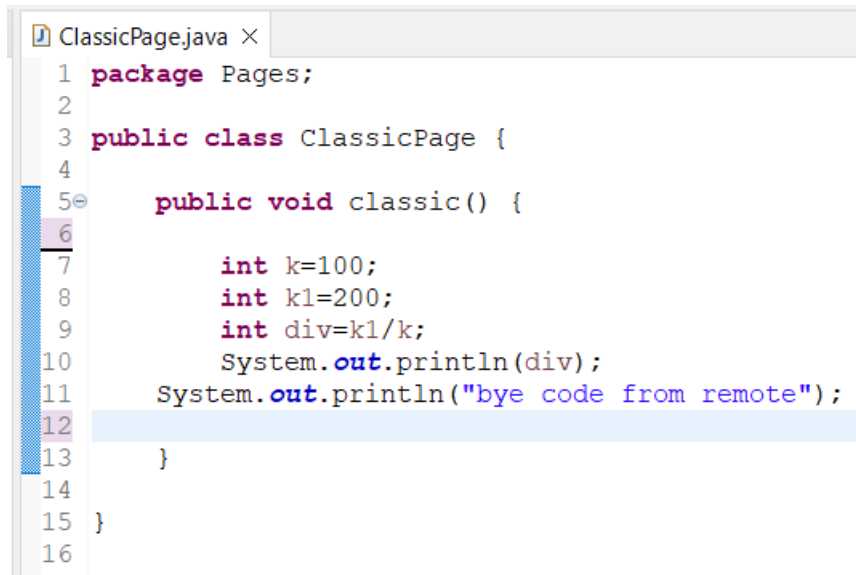
1 package Pages;
2
3 public class ClassicPage {
4
5     public void classic() {
6         <<<<<<< HEAD
7             int n=10;
8             int n1=20;
9             int m=n+n1;
10            System.out.println(m);
11
12            =====
13            int k=100;
14            int k1=200;
15            int div=k1/k;
16            System.out.println(div);
17            System.out.println("bye code from remote");
18            >>>>>>> fed8ed5c40383591b3ce20c364bcd1b0f0e5e2f1
19        }
20    }
21

```

It matches.

This commit is coming from remote end, as we came to know after re-verifying.

Now we want to keep the remote one and not ours-



```

1 package Pages;
2
3 public class ClassicPage {
4
5     public void classic() {
6
7         int k=100;
8         int k1=200;
9         int div=k1/k;
10        System.out.println(div);
11        System.out.println("bye code from remote");
12    }
13
14 }
15
16

```

```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master|MERGING)
$ 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 added:      src/Pages/ClassicPage.java

no changes added to commit (use "git add" and/or "git commit -a")
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master|MERGING)
$ |

```

Lets add one more line after accepting the other persons change-

```

ClassicPage.java ×
1 package Pages;
2
3 public class ClassicPage {
4
5     public void classic() {
6
7         int k=100;
8         int k1=200;
9         int div=k1/k;
10        System.out.println(div);
11        System.out.println("bye code from remote");
12        System.out.println("Accepted our friends code");
13
14    }
15
16 }
17

```

```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (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:   src/Pages/ClassicPage.java

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

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add src/Pages/ClassicPage.java

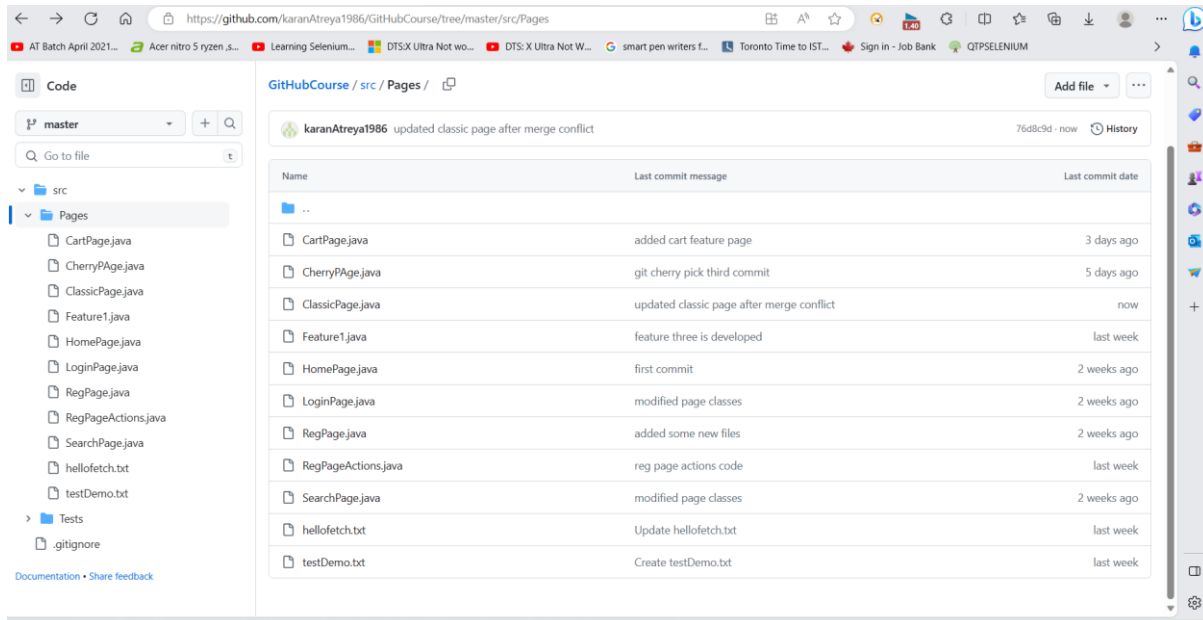
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "updated classic page after merge conflict"
[master 76d8c9d] updated classic page after merge conflict
1 file changed, 1 insertion(+)

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git push origin master
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 496 bytes | 496.00 KiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/karanAtreya1986/GitHubCourse.git
    cb0df58..76d8c9d  master -> master

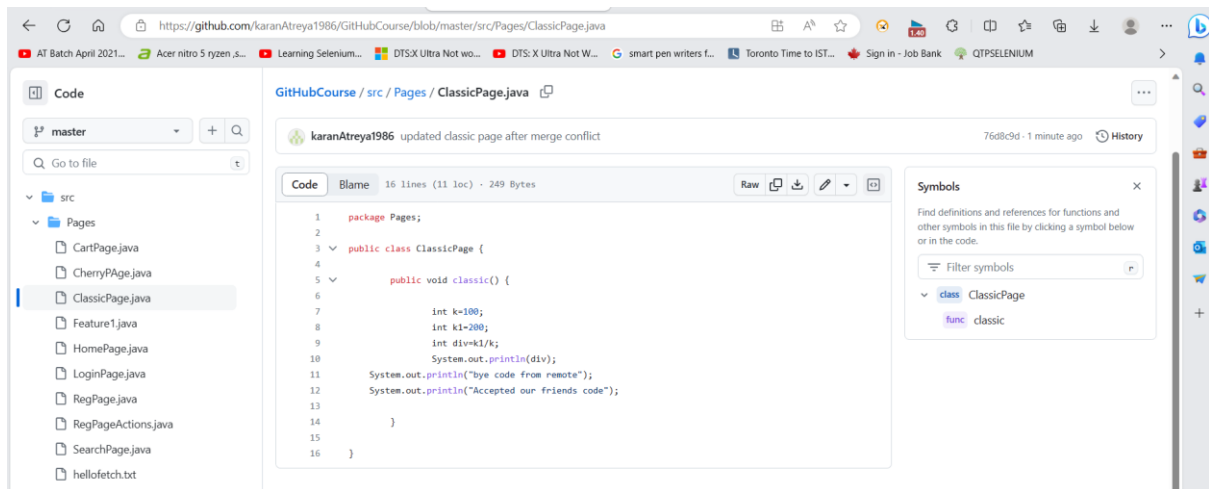
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

```

Our classic gone and only friend's classic remains-



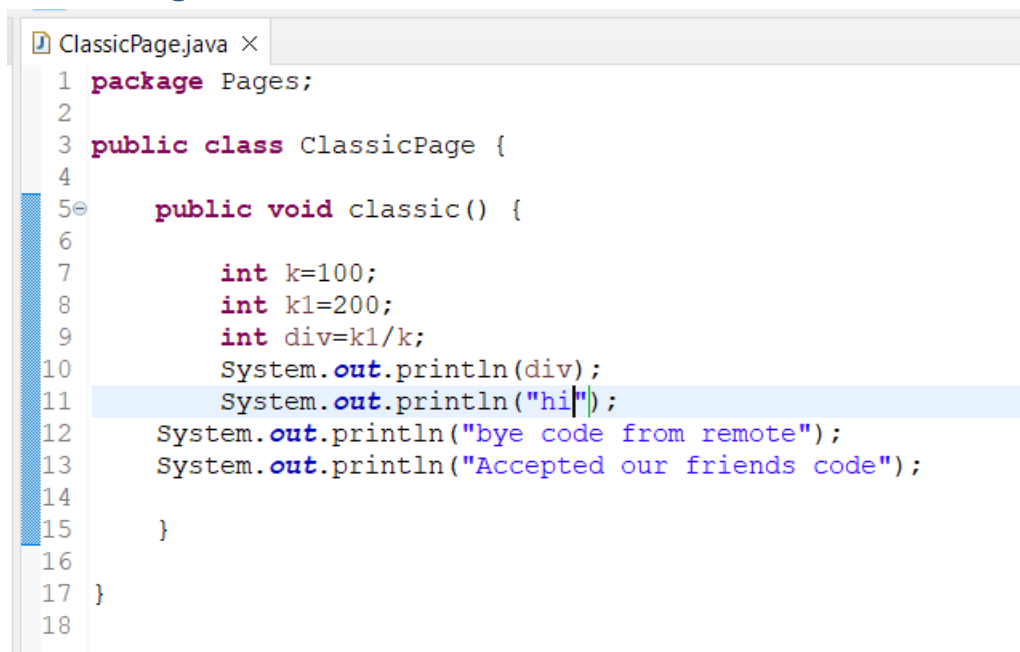
Good code remains-



No conflicts now.

Now, other developer (who has originally written this code) and takes pull will not get conflict because we have written extra line and not touched earlier code.

Lets change in middle and see-



```

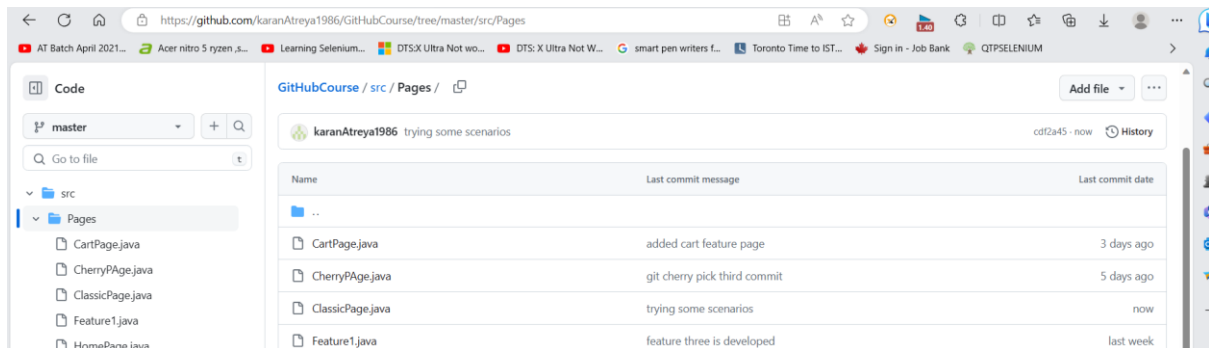
MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   src/Pages/ClassicPage.java

no changes added to commit (use "git add" and/or "git commit -a")
g
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add .
git
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "trying some scenarios"
[master cdf2a45] trying some scenarios
1 file changed, 1 insertion(+)

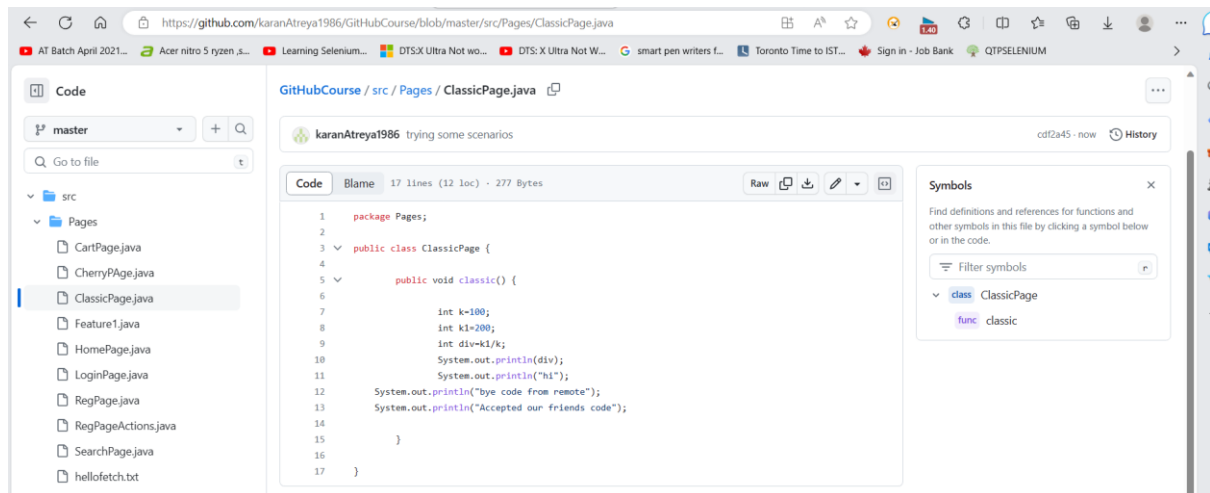
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git push origin master
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 452 bytes | 452.00 KiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/karanAtreya1986/GitHubCourse.git
    76d8c9d..cdf2a45  master -> master

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

```



No conflicts man-



The original developer, when he or she takes pull, they will get merge conflict as we have entered code in between their code, i.e., we have touched the code base of the original developer.