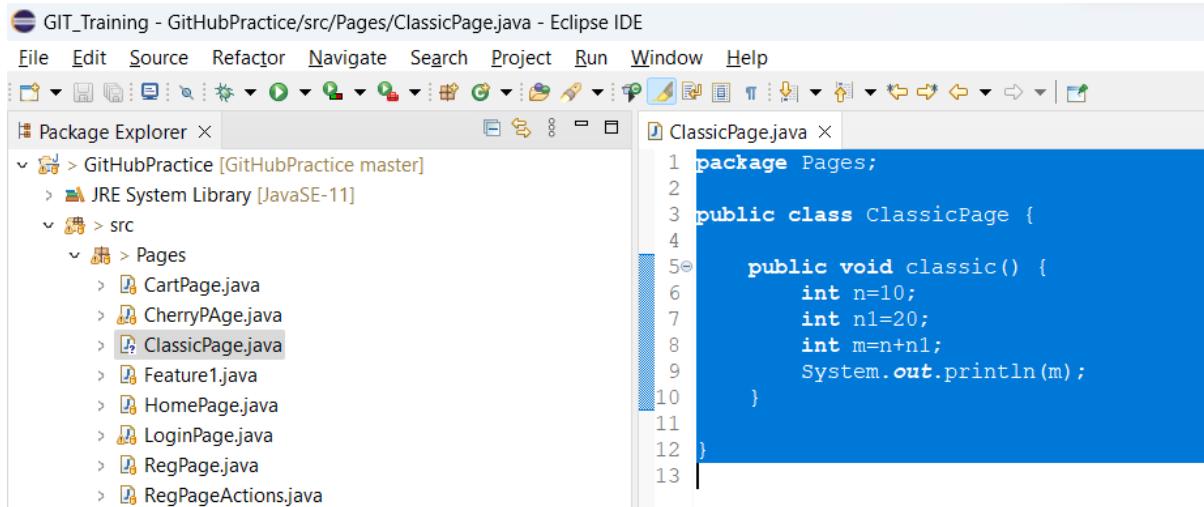


Merge Conflict with Git Pull

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



The screenshot shows the Eclipse IDE interface. The top bar displays "GIT_Training - GitHubPractice/src/Pages/ClassicPage.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help. The toolbar has various icons for file operations. The left side shows the "Package Explorer" with a tree view of the project structure under "GitHubPractice [GitHubPractice master]". The "src" folder contains subfolders like "Pages" and files such as CartPage.java, CherryPAge.java, ClassicPage.java, Feature1.java, HomePage.java, LoginPage.java, RegPage.java, and RegPageActions.java. The right side shows the "ClassicPage.java" editor with the following code:

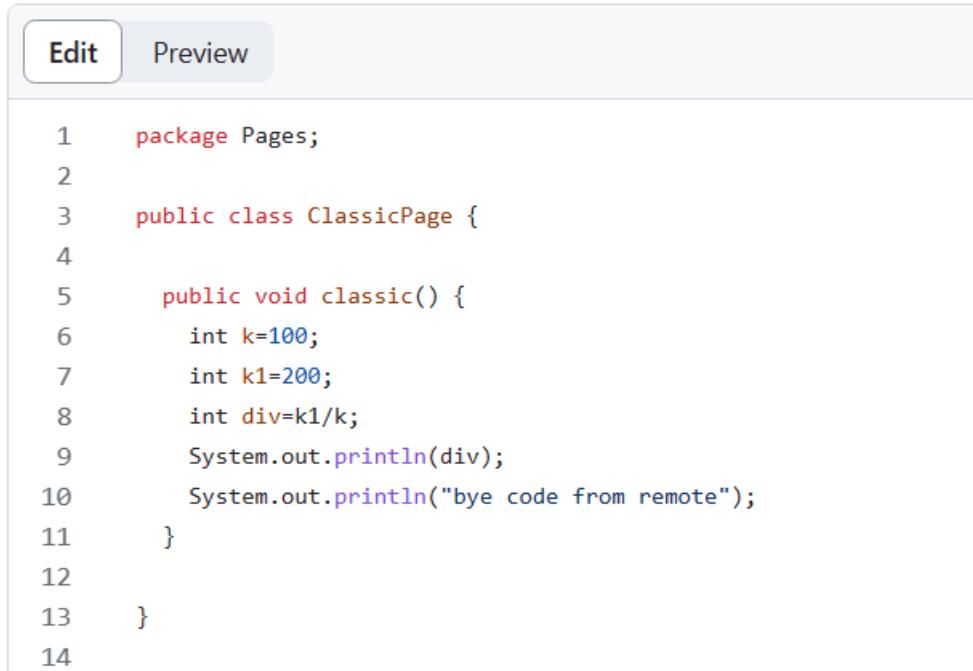
```

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
14

```

Code already there in remote-

[GitHubCourse / src / Pages /](#) ClassicPage.java in master



The screenshot shows a GitHub commit page for the "ClassicPage.java" file. The commit message is "Merge pull request #1 from GitHubCourse". The code in the file is identical to the one shown in the Eclipse screenshot:

```

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     @Test
6     public void classic() {
7         <<<<< HEAD
8             int n=10;
9             int n1=20;
10            int m=n+n1;
11            System.out.println(m);
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
```

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

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

```
karan@LAPTOP-H560VJTV 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-H560VJTV 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-H560VJTV 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-

```

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-

https://github.com/karanAtreya1986/GitHubCourse/tree/master

karanAtreya1986 / GitHubCourse

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

GitHubCourse Public

master 3 branches 3 tags Go to file Add file Code

Your master branch isn't protected Protect this branch

karanAtreya1986 Create ClassicPage.java fed8ed5 6 minutes ago 24 commits

SRC Create ClassicPage.java 6 minutes ago

https://github.com/karanAtreya1986/GitHubCourse/commits/master

karanAtreya1986 / GitHubCourse

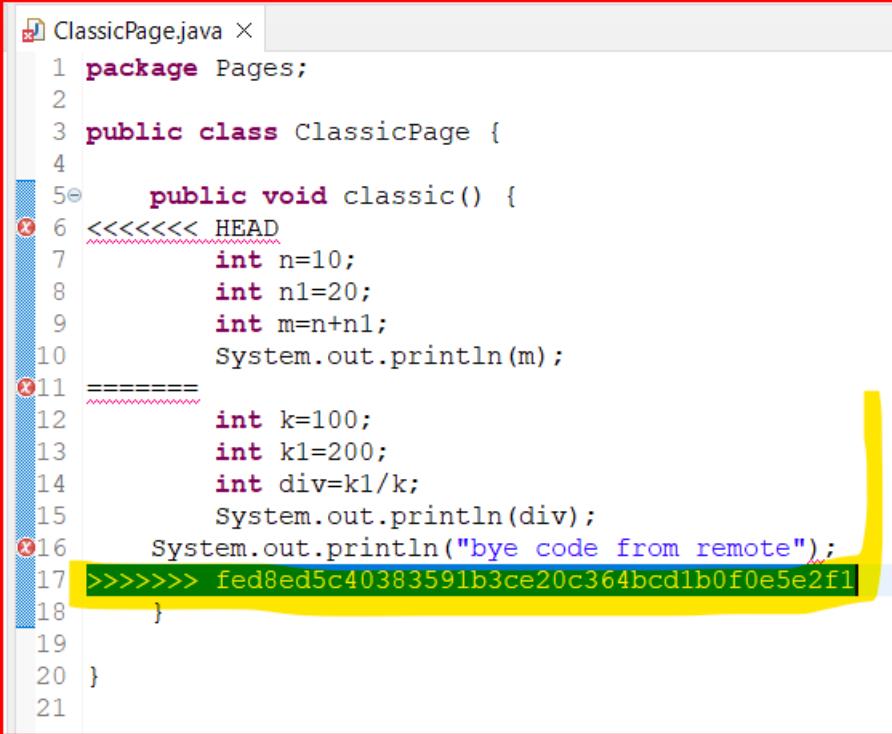
Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Commits

master

Commits on Aug 11, 2023

Create ClassicPage.java fed8ed5 karanAtreya1986 committed 7 minutes ago Verified



```

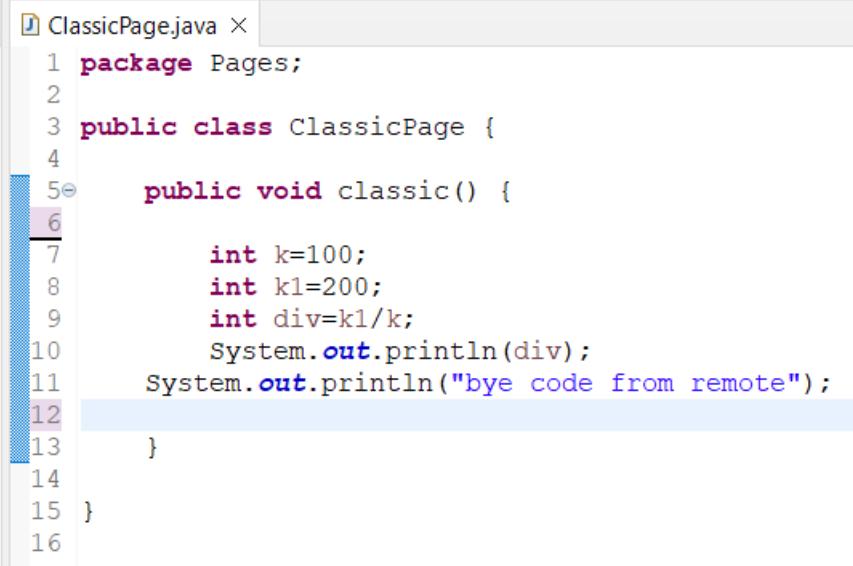
1 package Pages;
2
3 public class ClassicPage {
4
5     public void classic() {
6         <<<<< HEAD
7             int n=10;
8             int n1=20;
9             int m=n+n1;
10            System.out.println(m);
11 =====
12             int k=100;
13             int k1=200;
14             int div=k1/k;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

```

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)

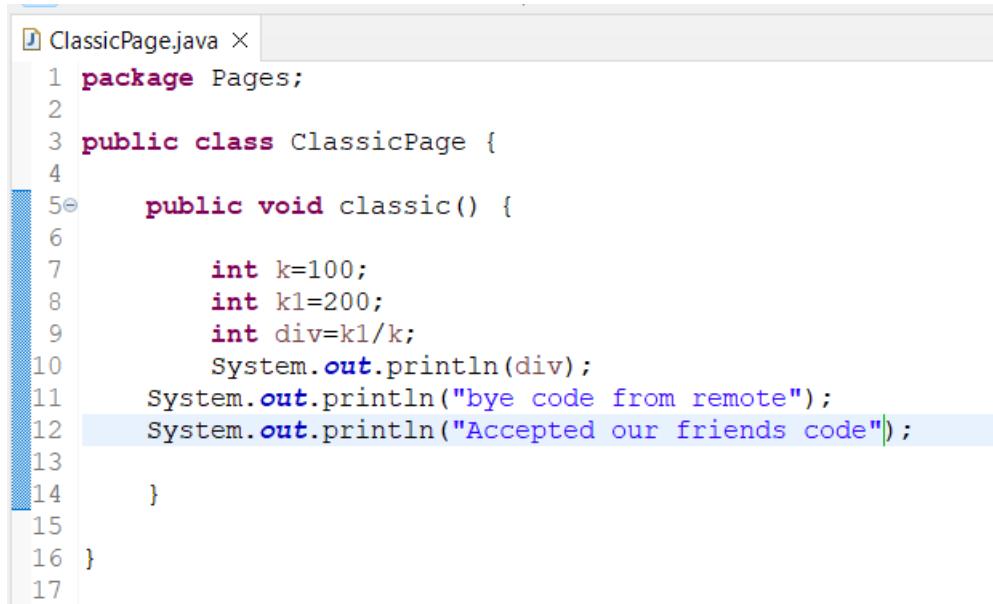
Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both added:   src/Pages/ClassicPage.java

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-

| Name | Last commit message | Last commit date |
|---------------------|---|------------------|
| CartPage.java | added cart feature page | 3 days ago |
| CherryPAge.java | git cherry pick third commit | 5 days ago |
| ClassicPage.java | updated classic page after merge conflict | now |
| Feature1.java | feature three is developed | last week |
| HomePage.java | first commit | 2 weeks ago |
| LoginPage.java | modified page classes | 2 weeks ago |
| RegPage.java | added some new files | 2 weeks ago |
| RegPageActions.java | reg page actions code | last week |
| SearchPage.java | modified page classes | 2 weeks ago |
| hellofetch.txt | Update hellofetch.txt | last week |
| testDemo.txt | Create testDemo.txt | last week |

Good code remains-

```

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("hi");
12        System.out.println("bye code from remote");
13        System.out.println("Accepted our friends code");
14    }
15
16 }
17
18

```

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-

```

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("hi");
12        System.out.println("bye code from remote");
13        System.out.println("Accepted our friends code");
14    }
15
16 }
17
18

```

```

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)
$ |

```

| Name | Last commit message | Last commit date |
|------------------|------------------------------|------------------|
| CartPage.java | added cart feature page | 3 days ago |
| CherryPage.java | git cherry pick third commit | 5 days ago |
| ClassicPage.java | trying some scenarios | now |
| Feature1.java | feature three is developed | last week |

No conflicts man-

The screenshot shows a GitHub repository page for 'GitHubCourse' with the file 'ClassicPage.java' open. The code editor displays the following Java code:

```
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("hi");
12        System.out.println("bye code from remote");
13        System.out.println("Accepted our friends code");
14
15    }
16
17 }
```

To the right of the code editor is a 'Symbols' panel which lists the symbols defined in the file: 'class ClassicPage' and 'func classic'.

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.