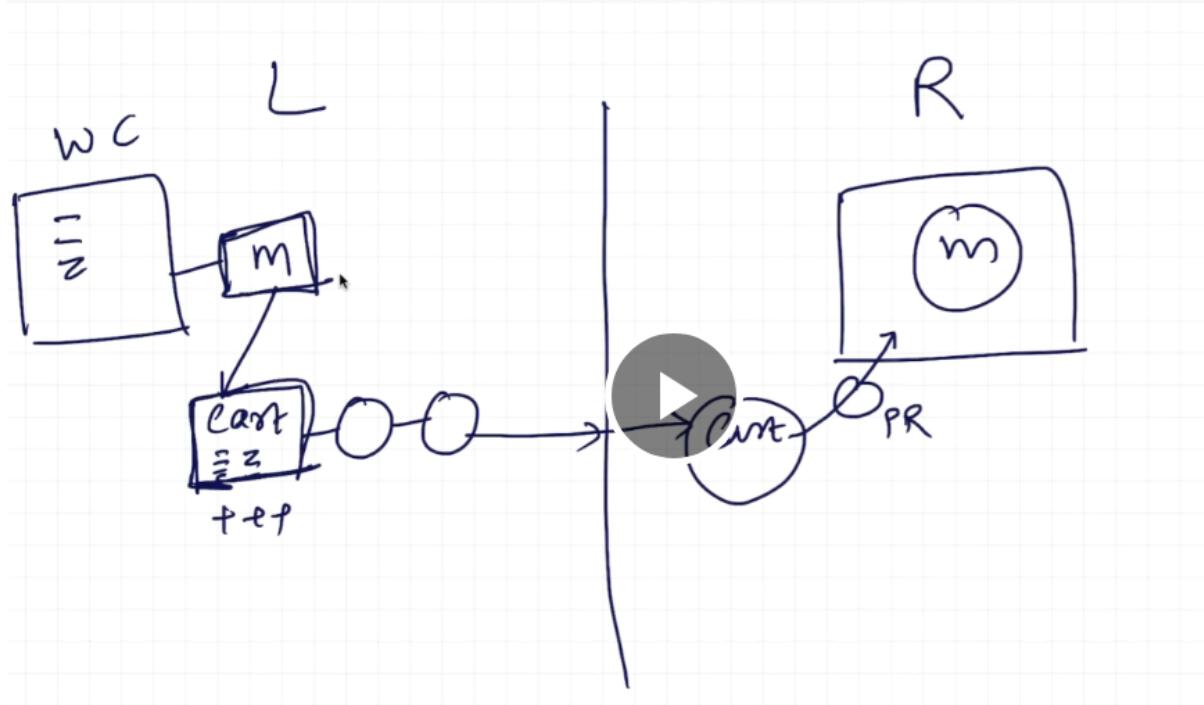


## How to create a local branch and push it to remote



To check how many branches are there-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (master)
$ git branch
* master

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

Create branch-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (master)
$ git branch cart

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (master)
$ git branch
  cart
* master

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

Star means our working copy is pointing to master branch.

## Checkout and check branch-

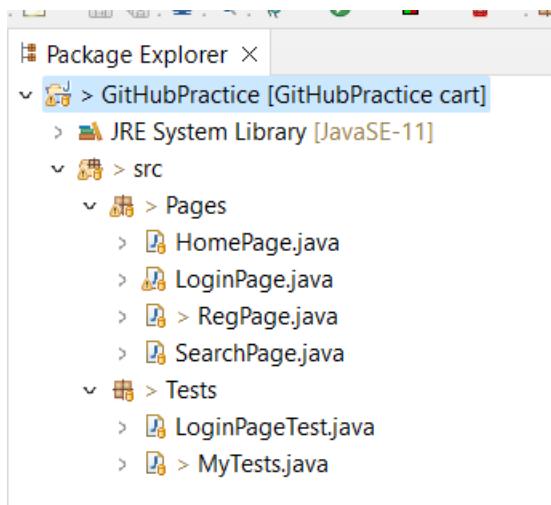
```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (master)
$ git checkout cart
Switched to branch 'cart'
M     src/Pages/RegPage.java
M     src/Tests/MyTests.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git branch
* cart
  master

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$
```

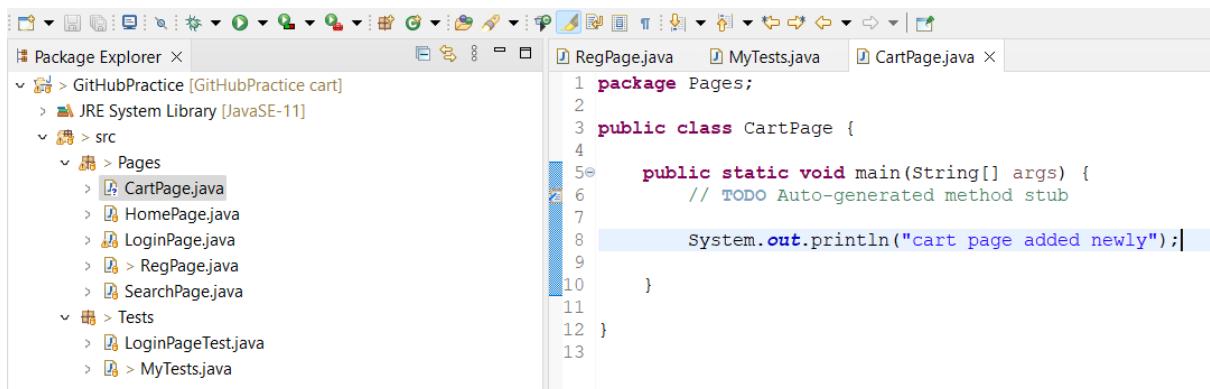
Open the ide.

Refresh the project or right click on project -> close and open the project.



We can see the branch name is updated next to the project.

## Code added-



Made changes and committed.

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git status
On branch cart
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/RegPage.java
    modified:   src/Tests/MyTests.java

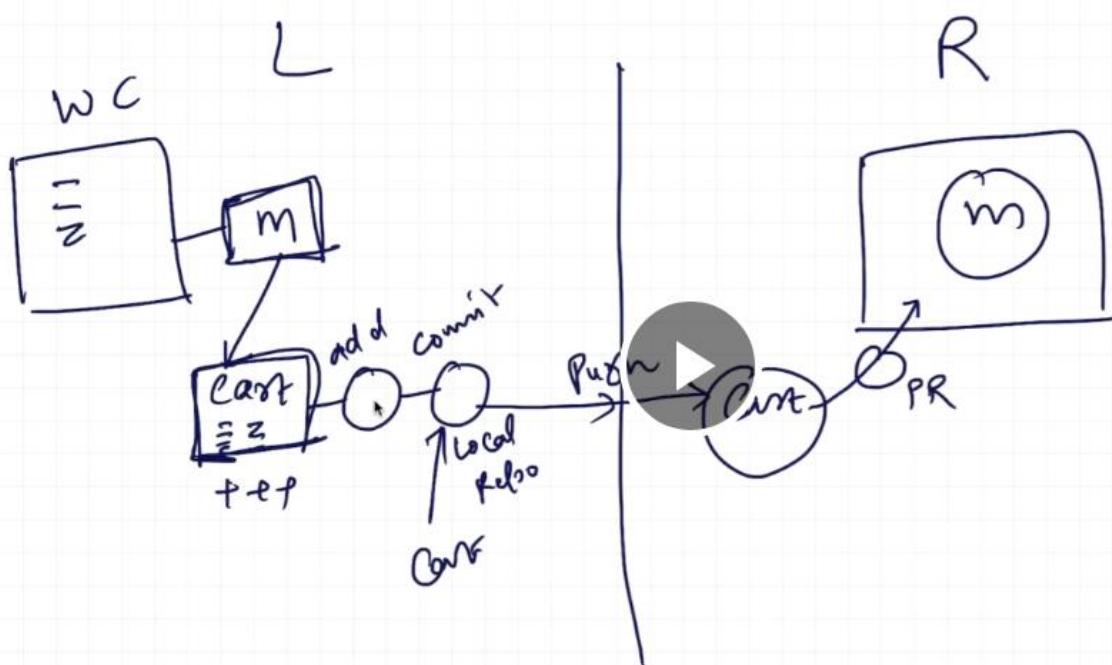
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    src/Pages/CartPage.java

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

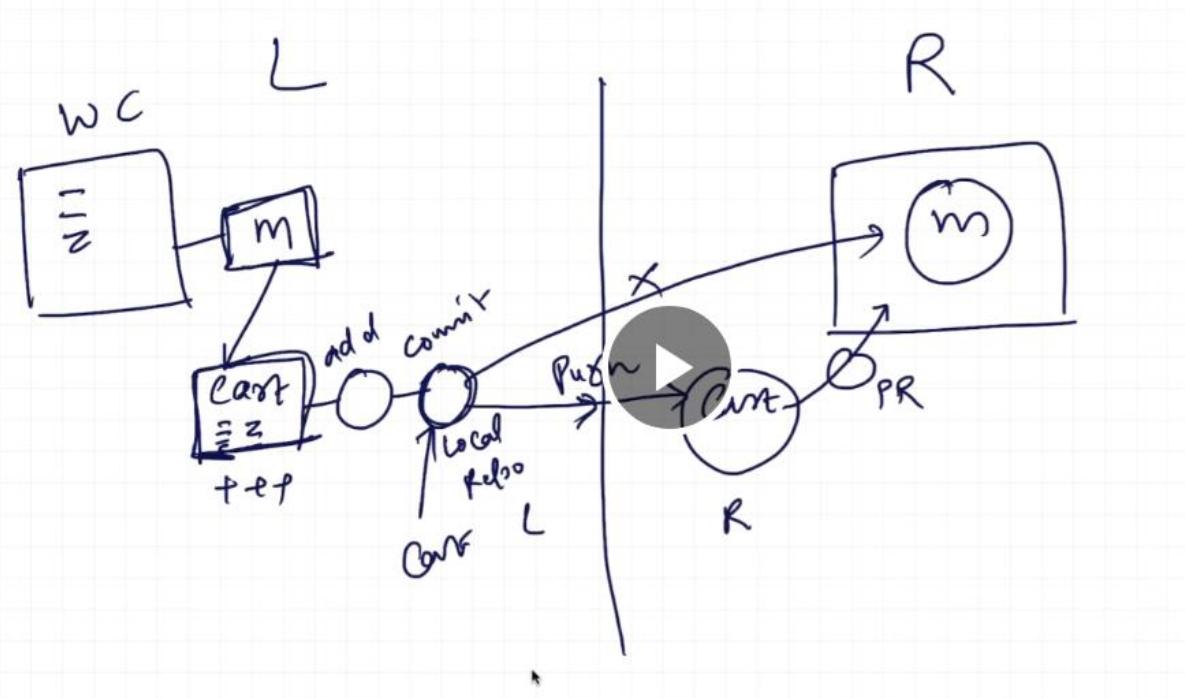
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git add .

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git commit -m "cart page added"
[cart 3731923] cart page added
 3 files changed, 15 insertions(+)
 create mode 100644 src/Pages/CartPage.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ |
```



Always push the code to the same branch in remote side.



don't push from cart to master.

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git push origin cart
Enumerating objects: 29, done.
Counting objects: 100% (29/29), done.
Delta compression using up to 12 threads
Compressing objects: 100% (25/25), done.
Writing objects: 100% (25/25), 2.27 KiB | 331.00 KiB/s, done.
Total 25 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), done.
remote:
remote: Create a pull request for 'cart' on GitHub by visiting:
remote:     https://github.com/karanAtreya1986/GitHubCourse/pull/new/cart
remote:
To https://github.com/karanAtreya1986/GitHubCourse.git
 * [new branch]      cart -> cart

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$
```

Refresh gitlab-

The screenshot shows a GitHub repository page for 'GitHubCourse'. At the top, there's a navigation bar with links for 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. Below the navigation bar, the repository name 'GitHubCourse' is displayed along with a green octocat icon and a 'Public' badge. A yellow banner at the top right indicates that 'cart' had recent pushes 1 minute ago, with a 'Compare & pull request' button. Below the banner, it shows 'master' branch, '1 branch', and '0 tags'. There are three commits listed: 'karanAtreya1986 modified page classes' (yesterday), 'src' (modified page classes, yesterday), and '.gitignore' (first commit, 3 days ago). A note at the bottom encourages adding a README, with a 'Add a README' button.

Branches updated-

The screenshot shows the 'Switch branches/tags' dropdown menu. It displays 'master' as the current branch, '2 branches', and '0 tags'. A search bar is present with the placeholder 'Find or create a branch...'. Below the search bar, there are tabs for 'Branches' (selected) and 'Tags'. Under the 'Branches' tab, 'master' is checked, and 'cart' is listed below it. A 'default' button is also visible. At the bottom of the menu, there's a link to 'View all branches'.

We can see the code once we are in cart branch.

**GitHubCourse** Public

**cart** had recent pushes 2 minutes ago

This branch is 4 commits ahead of master.

Help people interested in this repository understand your project by adding a README.

Add a README

**GitHubCourse / src /**

karanAtreya1986 cart page added

src cart page added

.gitignore first commit

Add file

Try to change master branch and we get code from master area-

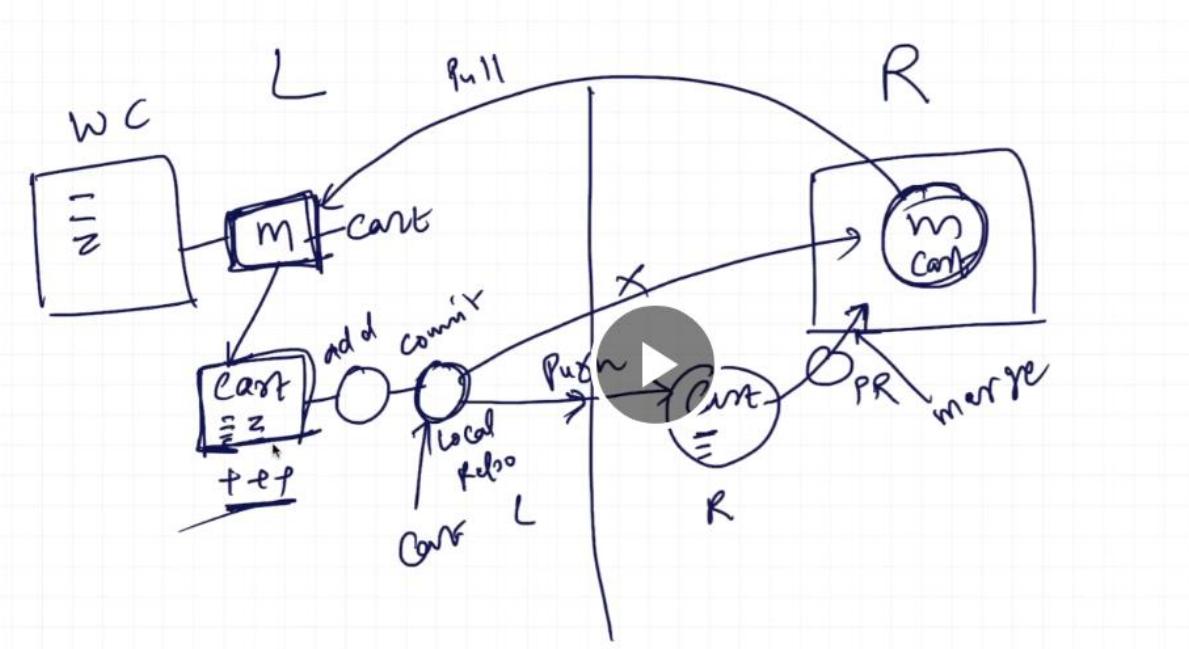
**GitHubCourse / src /**

master modified page classes

src modified page classes

.gitignore added/updated/deleted files

Add file



Added more code-

```

1 package Tests;
2
3 public class CartPageTest {
4
5     public void cartTest() {
6         System.out.println("true");
7     }
8
9 }
10

```

Question mark in project explorer means the file is untracked.

Orange box means already committed and in remote repo.

We can push as many times to the same branch as and when we are changing the code.

```

MINGW64:/e/Naveen_GIT_Training/Cucumber/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git status
On branch cart
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    src/Tests/CartPageTest.java

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

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git add .

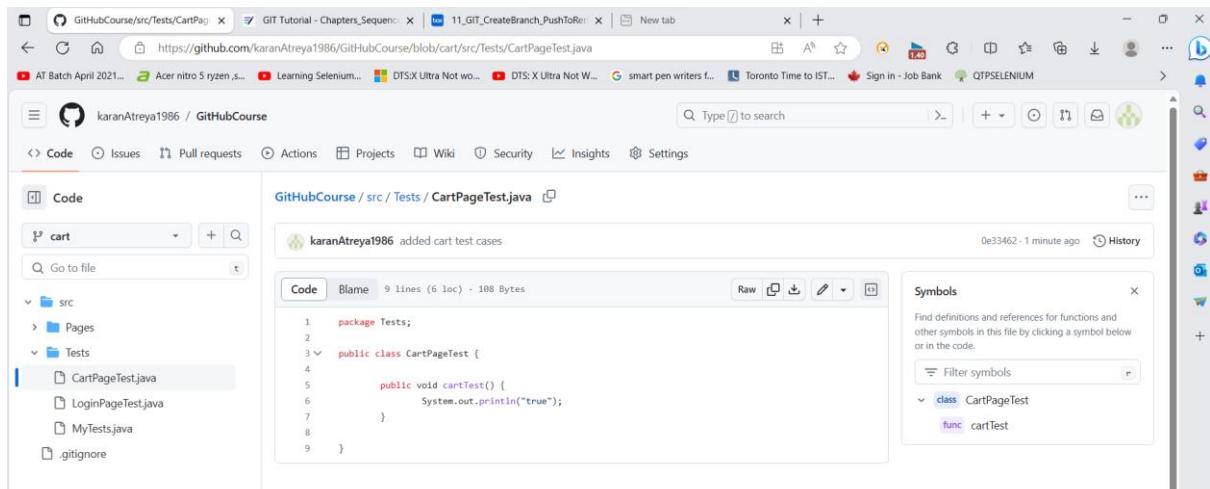
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git status
On branch cart
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   src/Tests/CartPageTest.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git commit -m "added cart test cases"
[cart 0e33462] added cart test cases
 1 file changed, 9 insertions(+)
 create mode 100644 src/Tests/CartPageTest.java

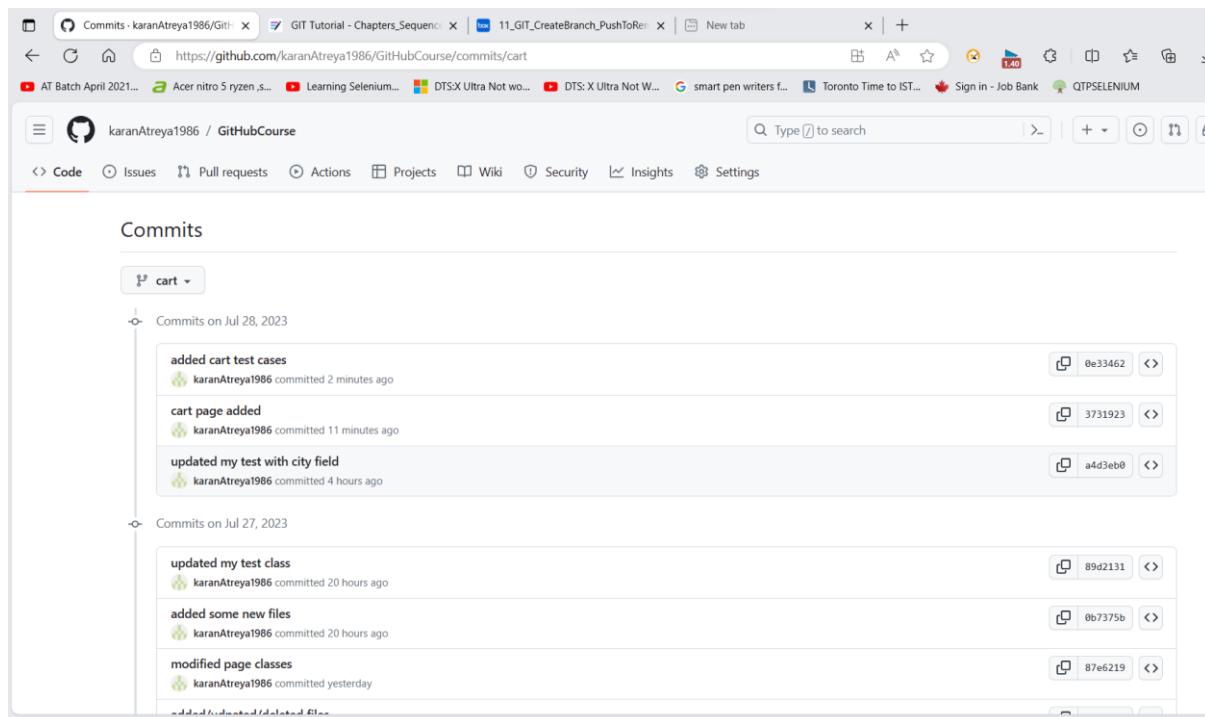
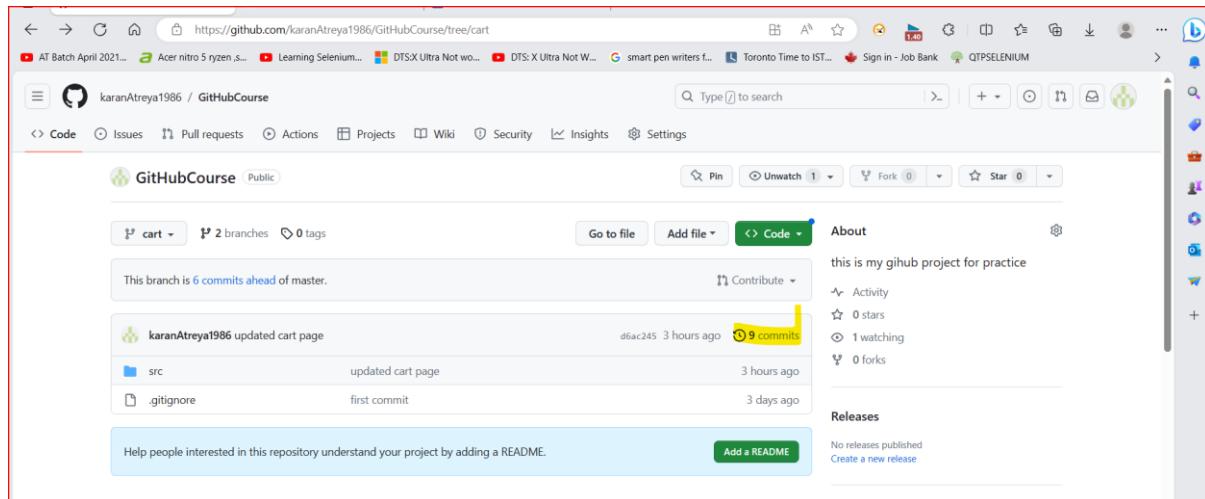
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git push origin cart
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 561 bytes | 280.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/karanAtreya1986/GitHubCourse.git
 3731923..0e33462  cart -> cart

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ 
```

Refresh gitlab and code present-

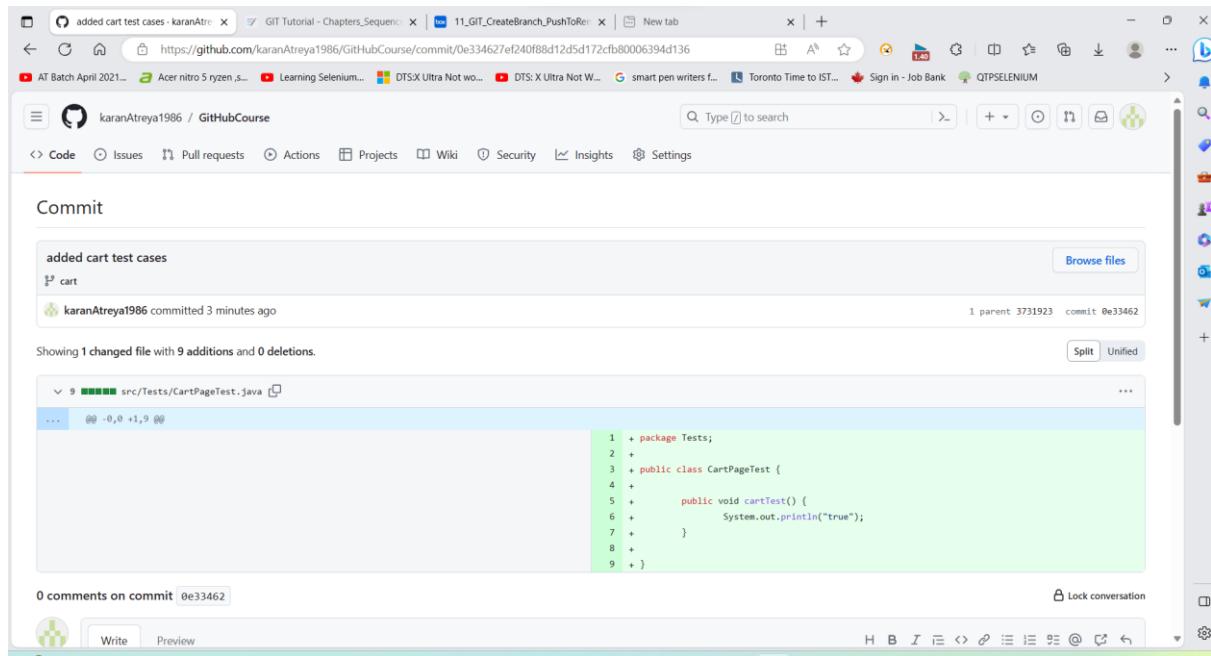


We can see commit history-

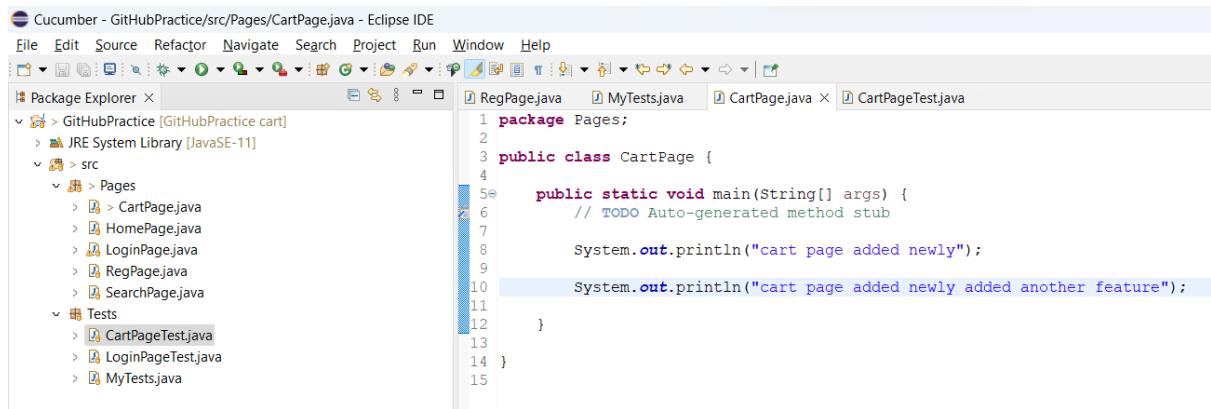


Change branch from the drop down in the above screenshot, and see that the code for that branch will be seen.

Click on any commit id-



## More code added-



```

MINGW64:/e/Naveen_GIT_Training/Cucumber/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git status
On branch cart
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/CartPage.java

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

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git add .

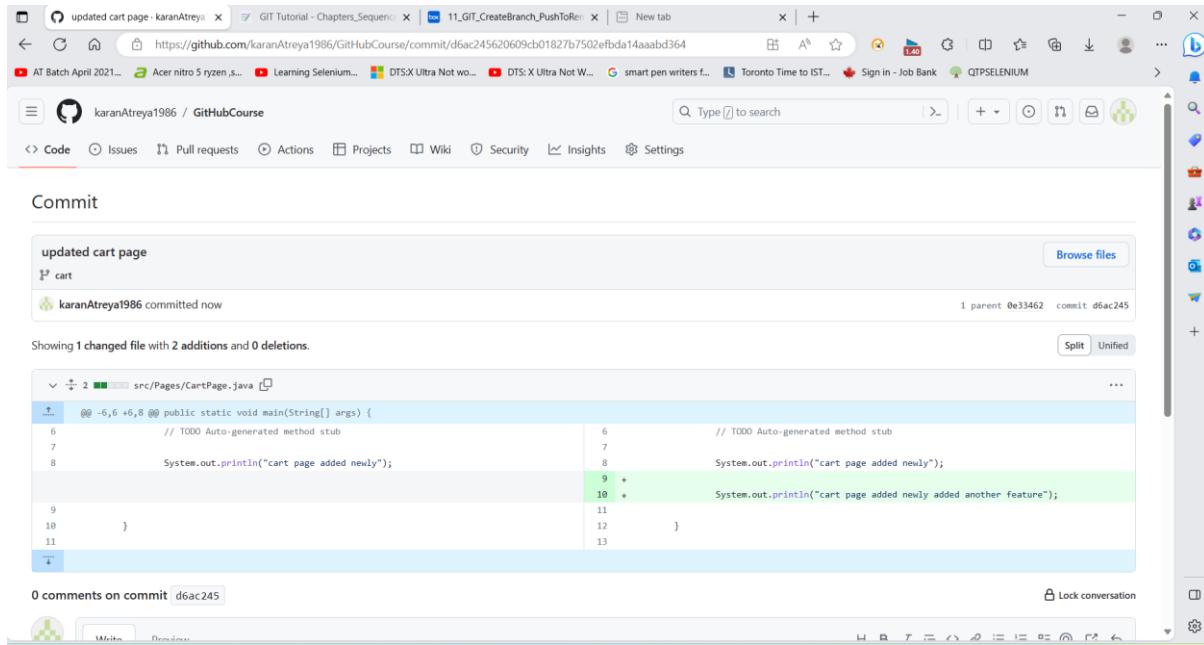
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git commit -m "updated cart page"
[cart d6ac245] updated cart page
 1 file changed, 2 insertions(+)

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ git push origin cart
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), 475 bytes | 475.00 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
  0e33462..d6ac245  cart -> cart

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/Cucumber/GitHubPractice (cart)
$ |

```

Refresh and code seen-



"Plus" sign means insertion. "Minus" sign means removal.