GIT Cherry-Pick
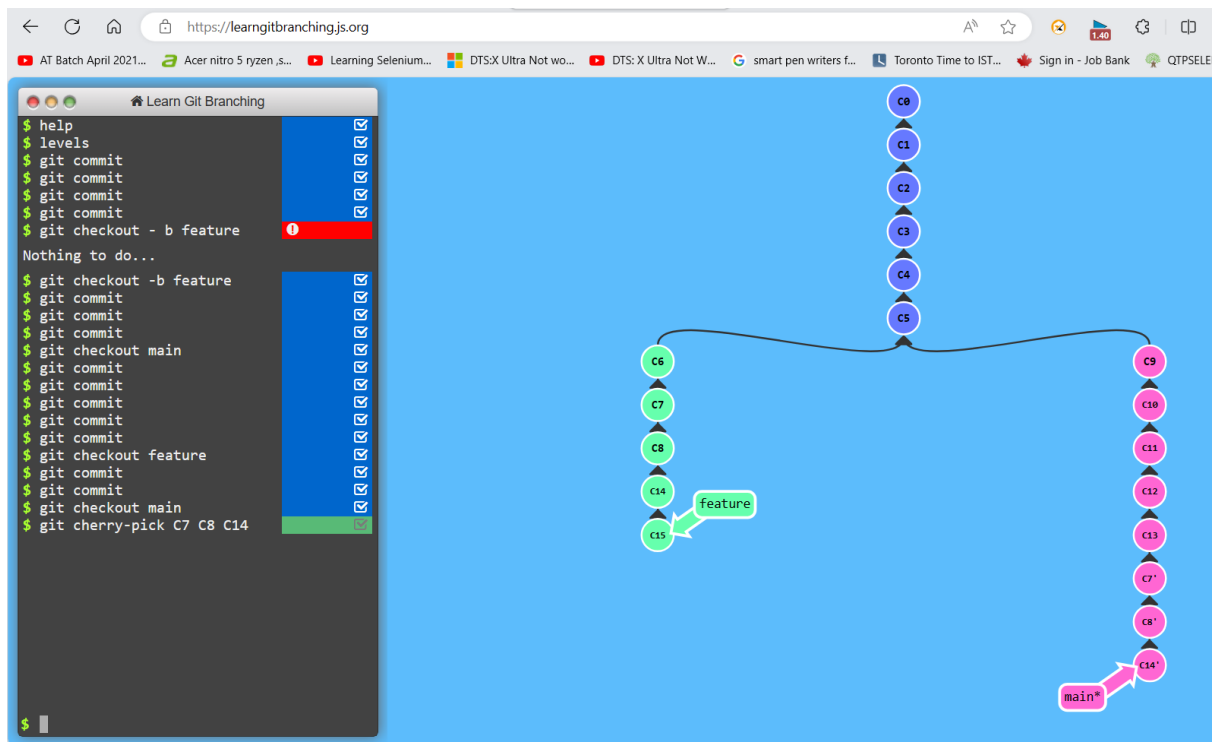
Pick only certain commits from a branch.

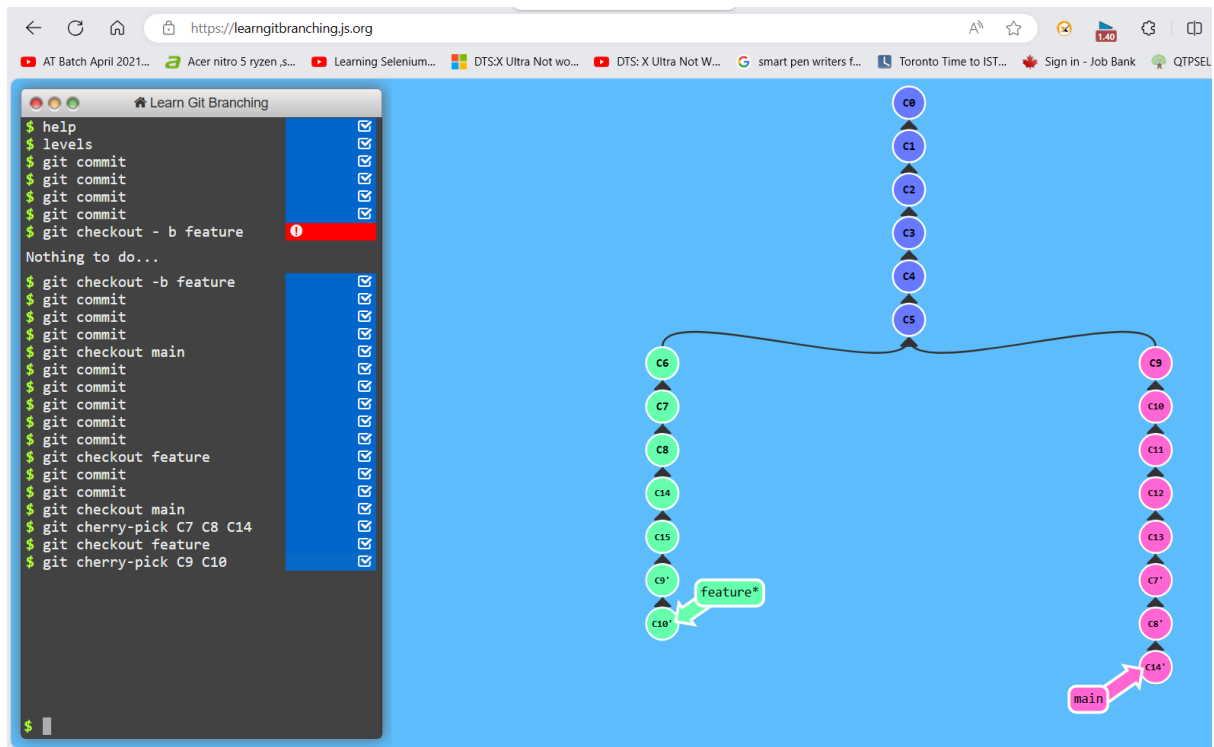```
git cherry-pick

M -- c1 c2 c3 c4
F -- f1 f2 c2 c3

M -- c1 c2 c3 c4 f1 f2 f3
F -- f1 f2 f3 f4 f5 f6
```



## From master to feature-

We are picking certain commits from master and adding them to feature.

## Practical example-

Added code.



```java
package Pages;

public class CherryPAge {

    public static void main(String[] args) {

        String name ="naveen";

    }
}
```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice

```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        src/Pages/CherryPAge.java

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

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add .

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "first cherry commit"
[master d003198] first cherry commit
 1 file changed, 11 insertions(+)
 create mode 100644 src/Pages/CherryPAge.java

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```
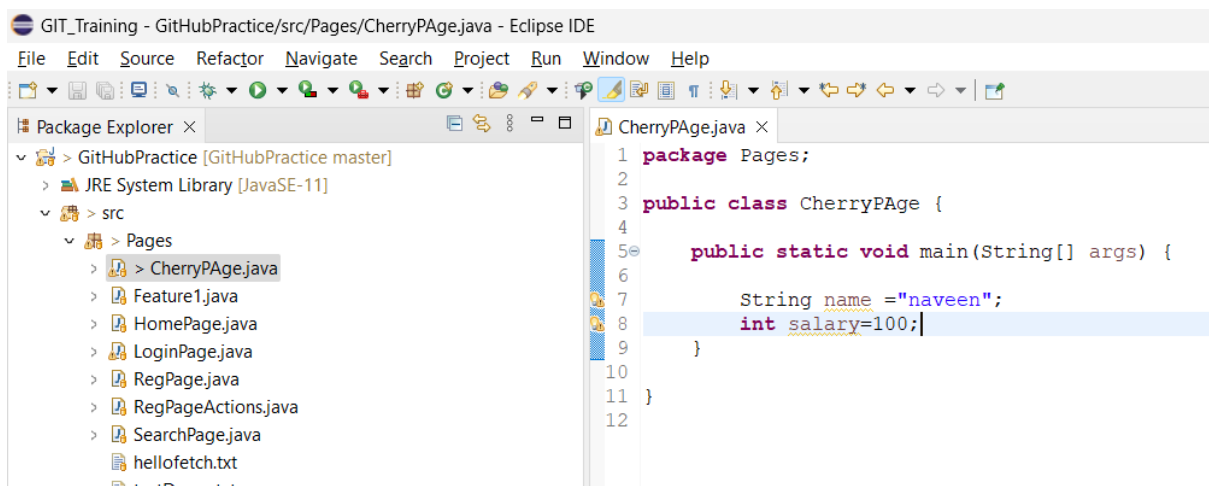
```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
d003198 (HEAD -> master) first cherry commit
c5a9d38 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
fd51b4d (origin/master) Update hellofetch.txt
ecd7db3 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
c076a2f Create hellofetch.txt
13085af Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
2e06418 Create testDemo.txt
7042519 (tag: v3.0) feature three is developed
2a8c1e0 (tag: v2.0) feature 2 is added
9825329 (tag: v1.0) feature 1 is added
ca66c6e Merge pull request #1 from karanAtreya1986/RP
2283173 (origin/RP, RP) reg page actions code
a4d3eb0 (feature1) updated my test with city field
89d2131 updated my test class
0b7375b added some new files
87e6219 modified page classes
97efad9 added/udpated/deleted files
9fe238f first commit

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

Add more code-

GIT_Training - GitHubPractice/src/Pages/CherryPAge.java - Eclipse IDE

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Package Explorer

- GitHubPractice [GitHubPractice master]
  - JRE System Library [JavaSE-11]
  - src
    - Pages
      - CherryPAge.java
      - Feature1.java
      - HomePage.java
      - LoginPage.java
      - RegPage.java
      - RegPageActions.java
      - SearchPage.java
      - hellofetch.txt

CherryPAge.java

```java
1  package Pages;
2
3  public class CherryPAge {
4
5      public static void main(String[] args) {
6
7          String name ="naveen";
8          int salary=100;
9      }
10
11 }
12
```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice

```
karan@LAPTOP-H56OVJTV 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/CherryPAge.java

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

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add .
g
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "second cherry commit"
[master ac11998] second cherry commit
 1 file changed, 1 insertion(+), 1 deletion(-)

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

```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
ac11998 (HEAD -> master) second cherry commit
d003198 first cherry commit
c5a9d38 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
fd51b4d (origin/master) Update hellofetch.txt
ecd7db3 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
c076a2f Create hellofetch.txt
13085af Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
2e06418 Create testDemo.txt
7042519 (tag: v3.0) feature three is developed
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2283173 (origin/RP, RP) reg page actions code
a4d3eb0 (feature1) updated my test with city field
89d2131 updated my test class
0b7375b added some new files
87e6219 modified page classes
97efad9 added/udpated/deleted files
9fe238f first commit

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

More code added-

GIT_Training - GitHubPractice/src/Pages/CherryPAge.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer ×

∨ GitHubPractice [GitHubPractice master]
  › JRE System Library [JavaSE-11]
  ∨ src
    ∨ Pages
      › › CherryPAge.java
      › Feature1.java
      › HomePage.java
      › LoginPage.java
      › RegPage.java
      › RegPageActions.java
      › SearchPage.java
        hellofetch.txt
        testDemo.txt
    ∨ Tests

CherryPAge.java ×

```java
1  package Pages;
2
3  public class CherryPAge {
4
5      public static void main(String[] args) {
6
7          String name ="naveen";
8          int salary=100;
9      }
10
11     public void test() {
12         System.out.println("Test feature added");
13     }
14
15 }
16
```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice

```
i
karan@LAPTOP-H56OVJTV 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/CherryPAge.java

no changes added to commit (use "git add" and/or "git commit -a")
g
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add .

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "git cherry pick third commit"
[master 45cad7d] git cherry pick third commit
 1 file changed, 4 insertions(+)

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```
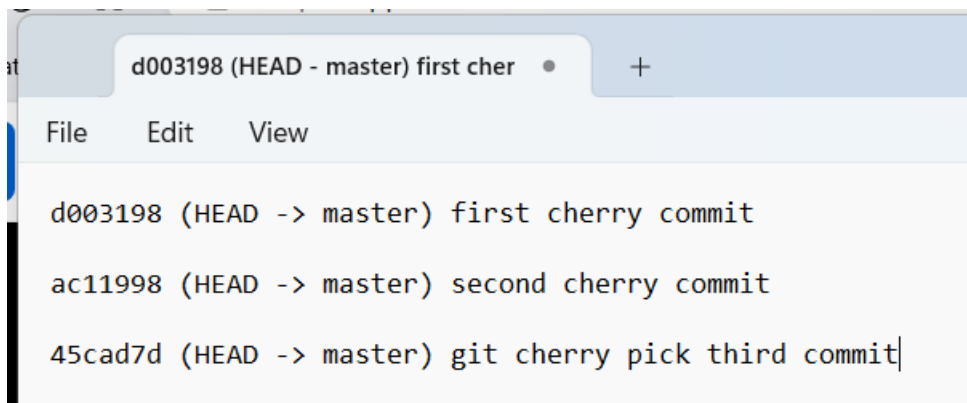
```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git log --oneline
45cad7d (HEAD -> master) git cherry pick third commit
ac11998 second cherry commit
d003198 first cherry commit
c5a9d38 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
fd51b4d (origin/master) Update hellofetch.txt
ecd7db3 Merge branch 'master' of https://github.com/karanAtreya1986/GitHubCourse
c076a2f Create hellofetch.txt
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89d2131 updated my test class
0b7375b added some new files
87e6219 modified page classes
97efad9 added/udpated/deleted files
9fe238f first commit

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

Lets cherry pick the first two commits from master-

```
d003198 (HEAD - master) first cher     •     +

File     Edit     View

   d003198 (HEAD -> master) first cherry commit

   ac11998 (HEAD -> master) second cherry commit

   45cad7d (HEAD -> master) git cherry pick third commit|
```

Switch to Naveen and cherry pick-

```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git branch
  RP
  cart
  feature1
* master
  naveen

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

Cherry pick can be done between feature branches, master to feature, feature to master and master to master and so on.