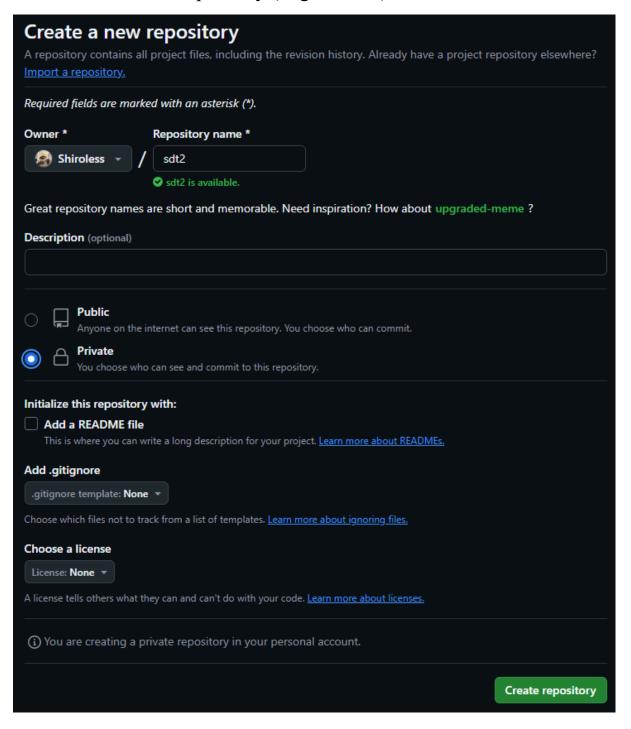
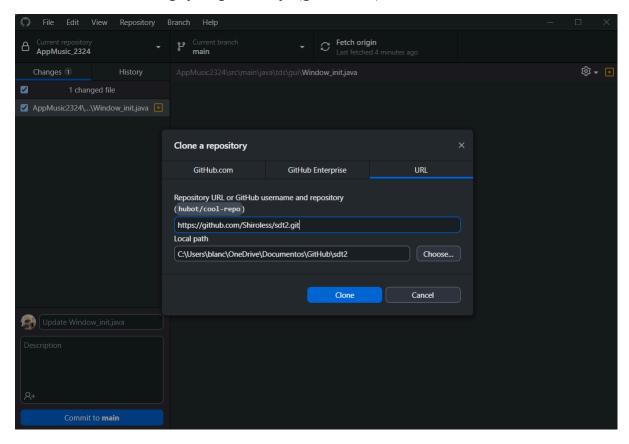
Report SDT2 - GitHub

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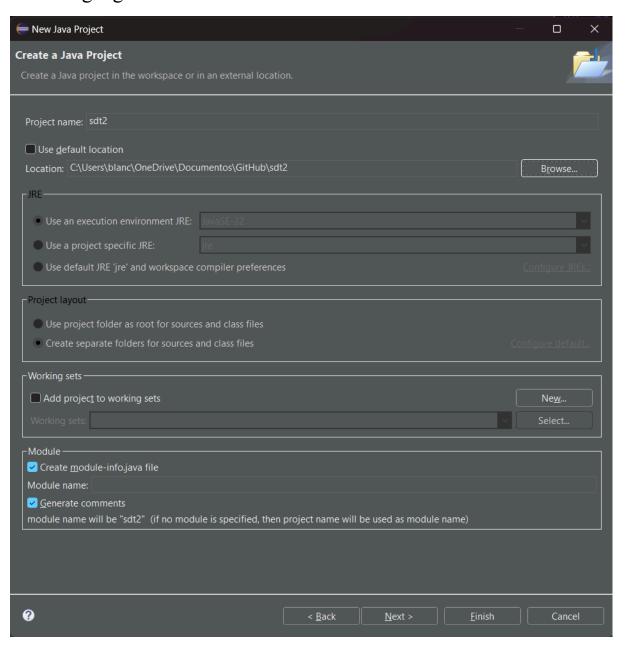
a. create remote repository (at github, ...)



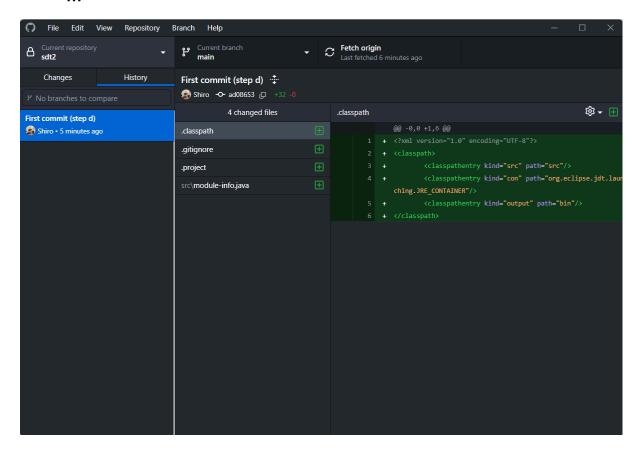
b. clone the empty repository (git clone)



c. create in the local repo folder an empty project using the chosen language



d. commit the whole project to the repo (git commit -m "message



e. add simple code to the Java/C++/C# project (e.g. create table, write table elements)

```
## eclipse-workspace - sdt2/src/sdt2/Main.java - Eclipse IDE

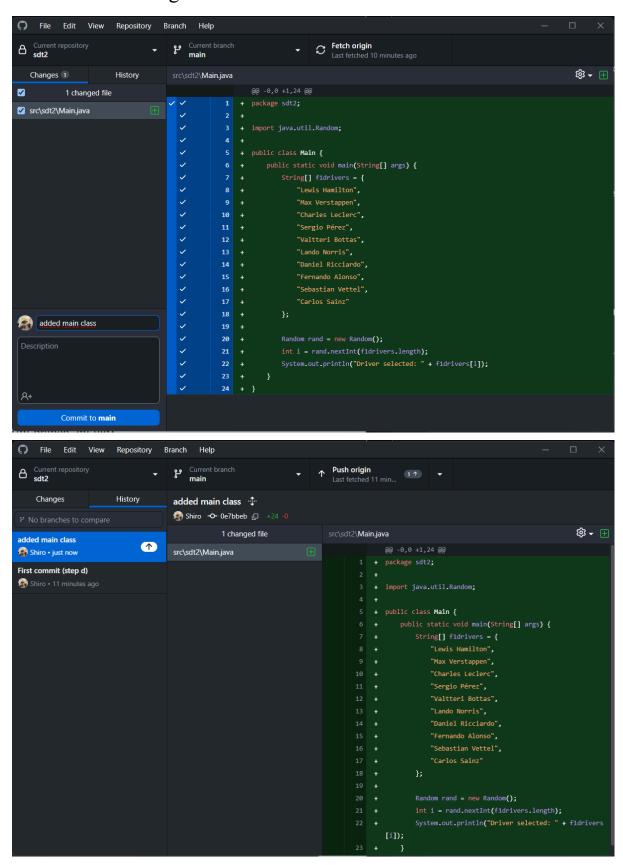
## Edit Source Refactor Navigate Search Project Run Window Help

## AppMusic_2324

## Calculator4

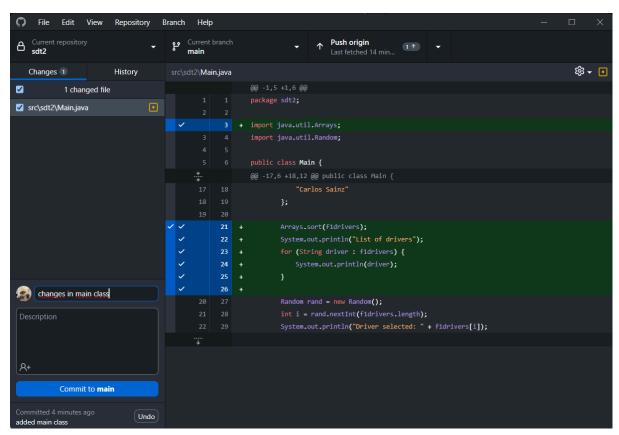
## Sot2 | Main.java | Mai
```

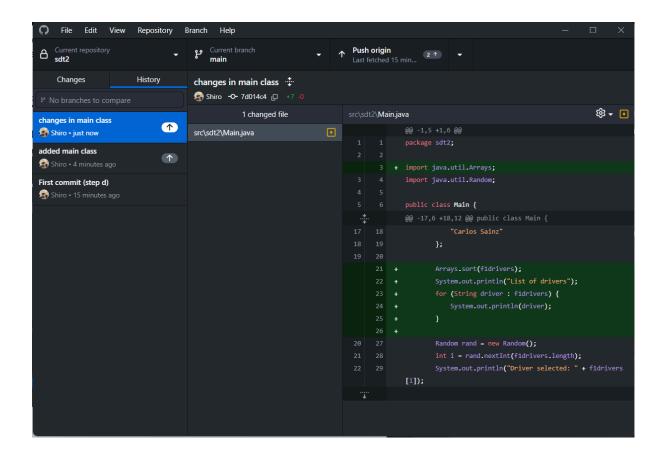
f. commit changes



g. add more code (e.g. initlizie table by random values)

h. commit changes

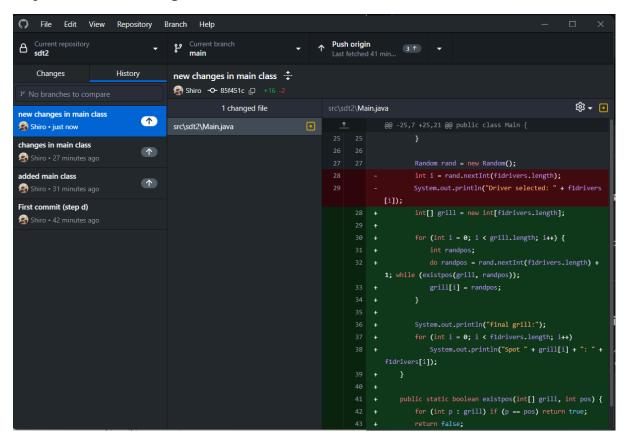




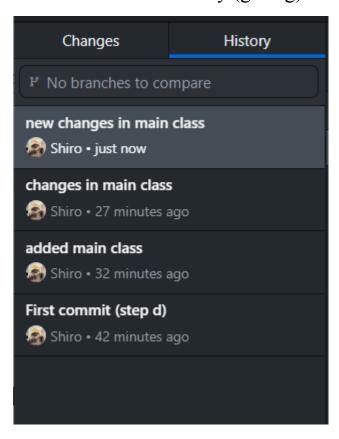
i. add more code (e.g. sort table elements)

```
| Reciprose workspace - self-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-background-back
```

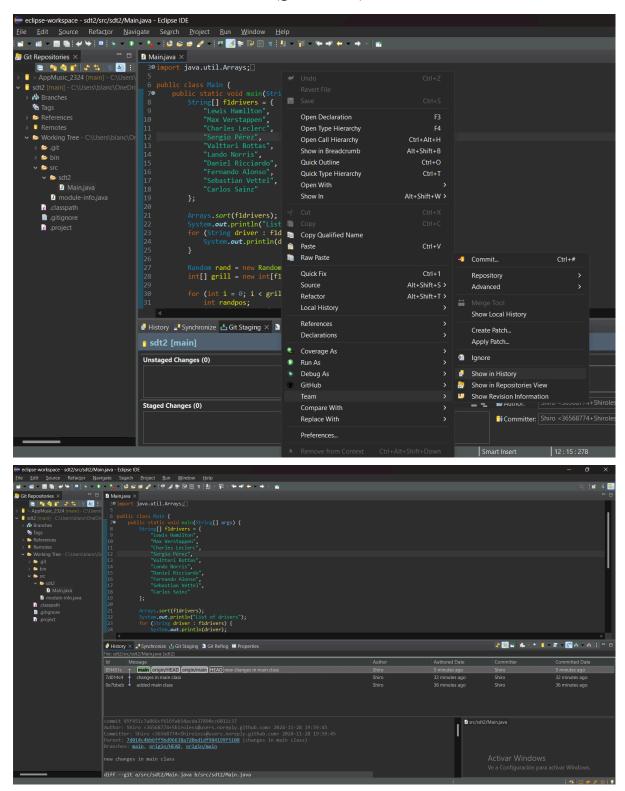
j. commit changes



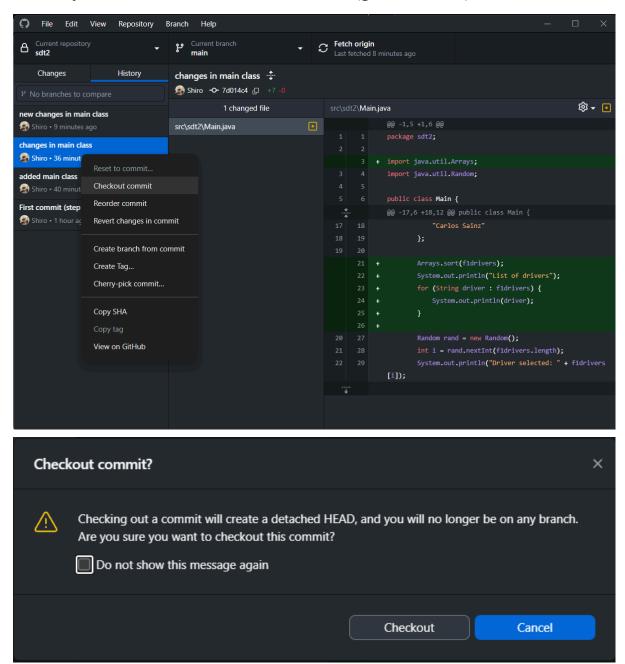
k. look at code history (git log)

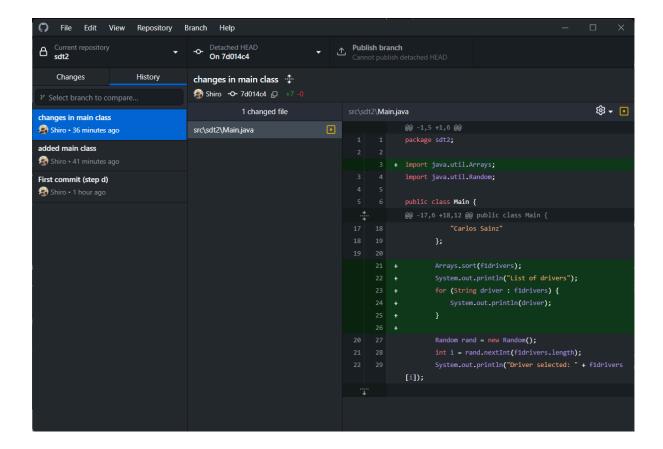


1. look at code annotations (git blame)



m. try to checkout different revisions (git checkout)



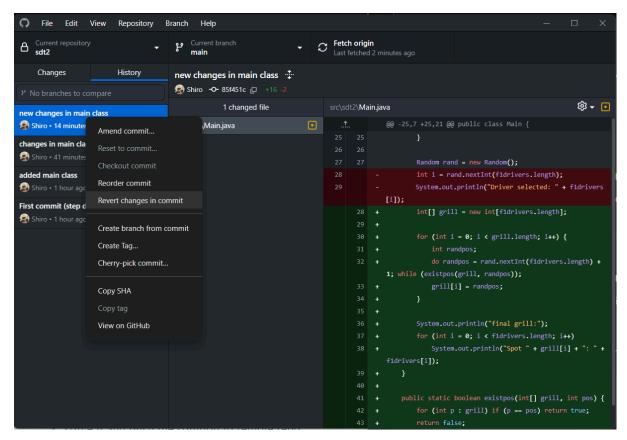


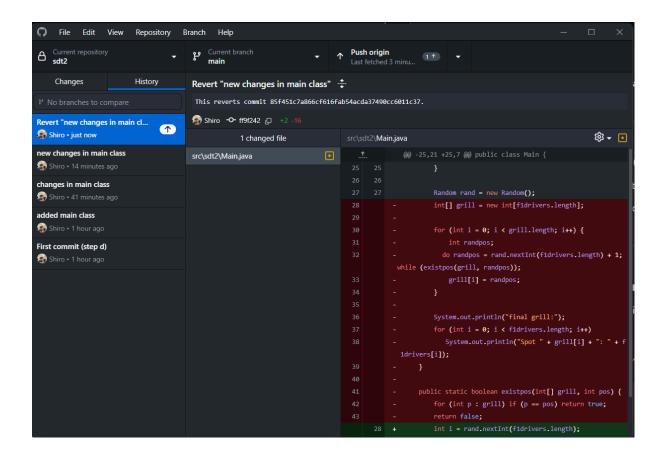
n. add any changes to the code, do not commit

before changes

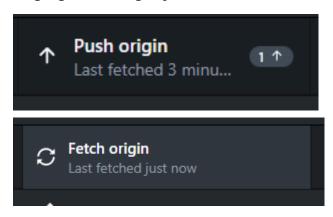
after changes

o. try to revert the last changes (git revert)

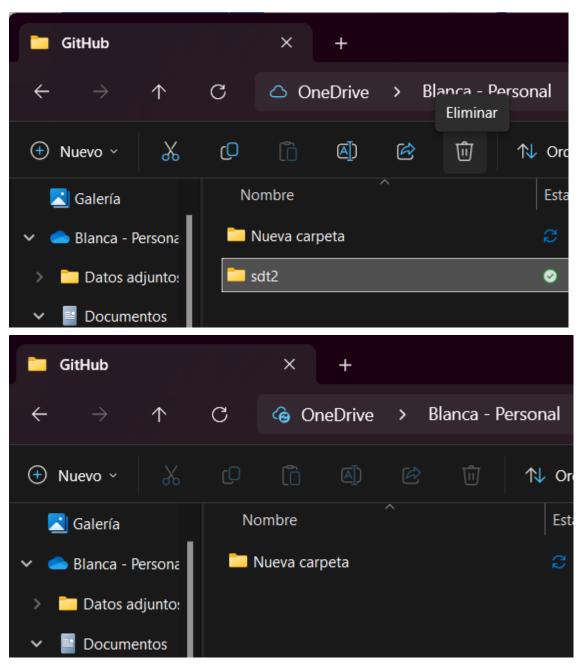


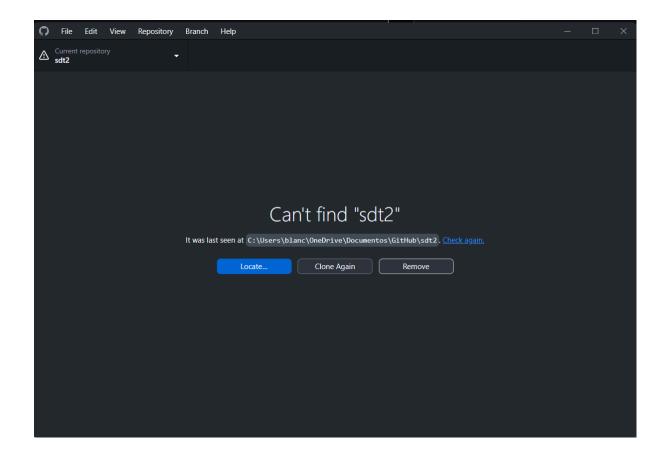


p. push the project to the remote repo (git push)

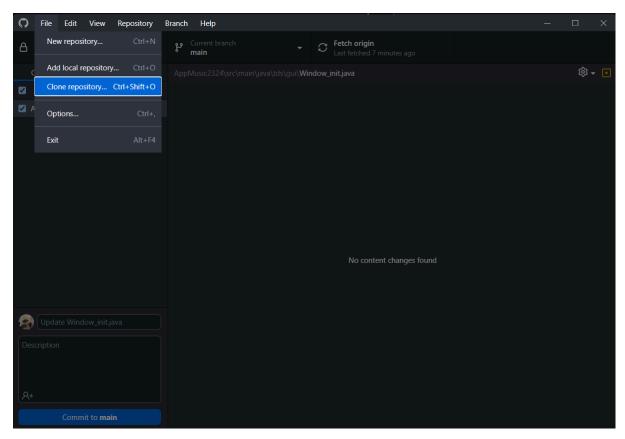


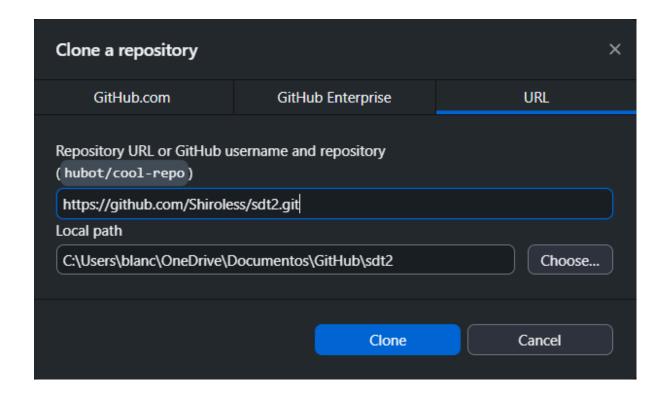
q. delete local project and local repo



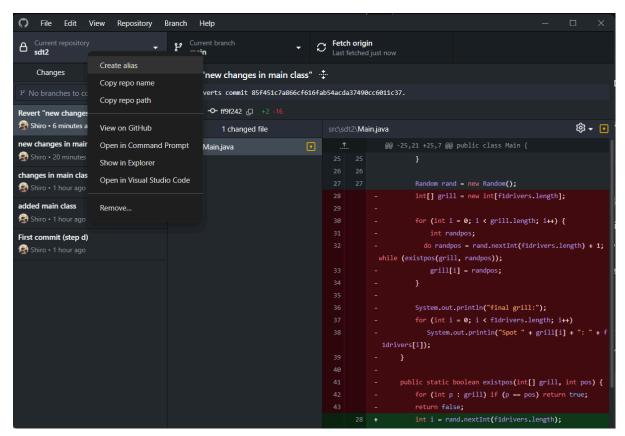


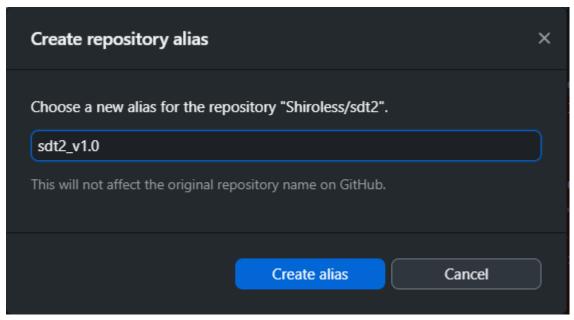
r. clone project from remote repo (git clone)

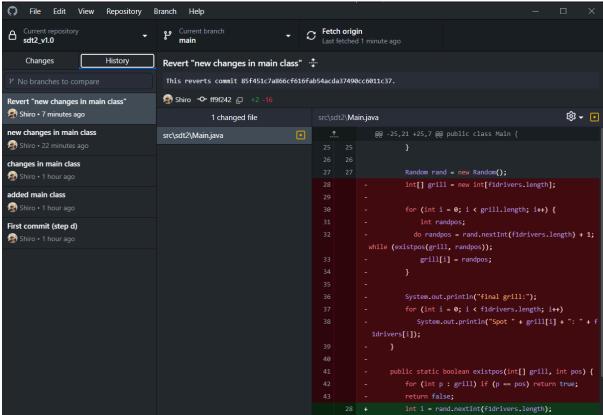




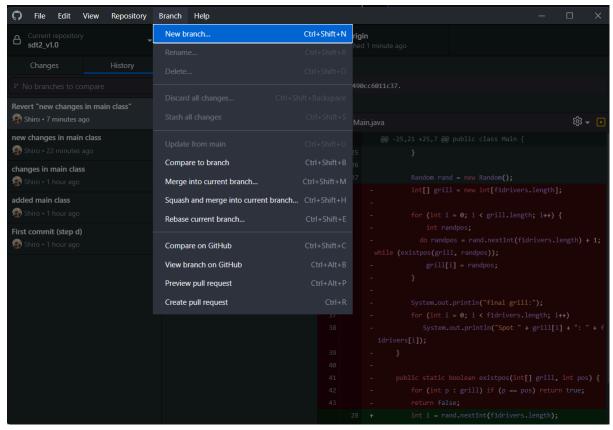
s. create tag/realese, try to switch between this tag and master branch (git branch, git tag)

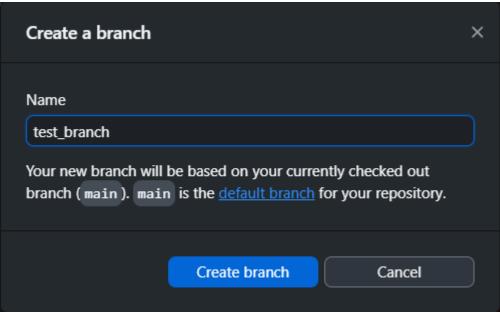




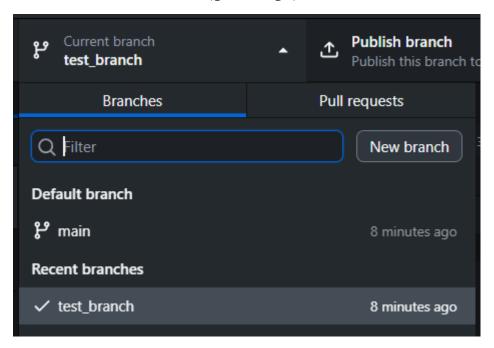


t. create new branch from the master one





u. switch to branch (git merge)



v. improve your code in a branch (e.g. change the sorting algorithm)

```
algolium

eclipse-workspace - sdt2/src/sdt2/Main,java - Eclipse IDE

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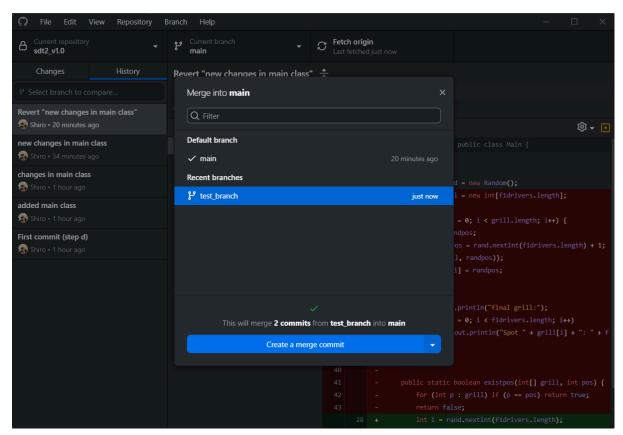
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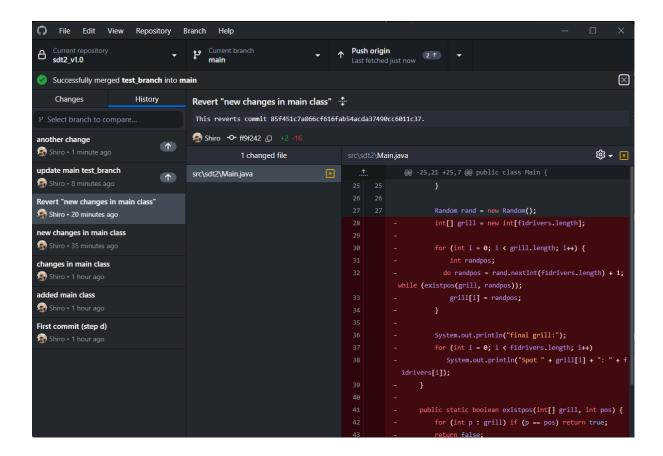
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if the Edit Source Bun Window Bun Window Bun Window Bun Wind
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Arrays.sort(fldrivers);
System.out.println("List of drivers");
for (string driver : fldrivers) {
    System.out.println(driver);
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Random rand = new Random();
int[] grill = new int[f1drivers.length];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for (int i = 0; i < grill.length; i++) {
   int randpos;
   do randpos = rand.nextInt(fidrivers.length) + 1; while (existpos(grill, randpos));
   grill[i] = randpos;</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           System.out.println("final grill:");
for (int i = 0; i < fldrivers.length; i++)
   System.out.println("Spot " + grill[i] + ": " + fldrivers[i]);</pre>
```

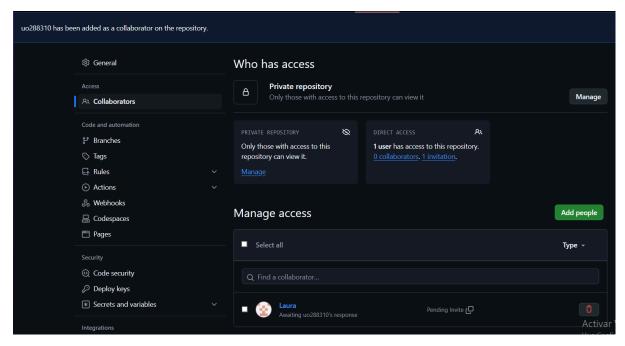
```
File Edit View
                        Repository Branch
                                                                          Publish branch
Current repository sdt2_v1.0
                                          test branch
                                       src\sdt2\Main.java
                                                                                                                                           慈 🛧 🕡
   Changes 1
                        History
   1 changed file
✓ src\sdt2\Main.java
                                                                  int i = rand.nextInt(f1drivers.length);
                                                                  System.out.println("Driver selected:
                                                                 int[] grill = new int[f1drivers.length];
                                                   28 +
                                                   30
                                                                 for (int i = 0; i < grill.length; i++) {</pre>
                                                   34
                                                                 System.out.println("final grill:");
                                                   37 +
                                                   40 +
update main test_branch
        Commit to test_branch
```

w. merge new branch in to the master branch

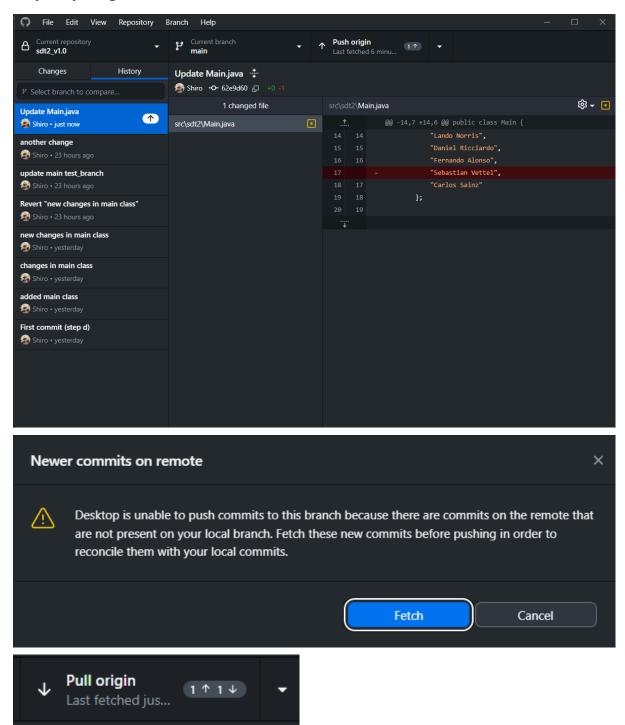


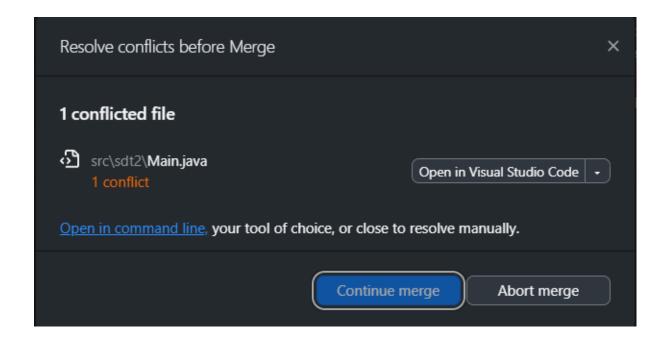


x. give a url to repo to one of your friends (before you have to allow him/her access to this repo)



y. try to produce conflict





z. solve it and push the solution to remote repo

```
public class Main {
public static void main(String[] args) {
    String[] f1drivers = {
        "Lewis Hamilton",
        "Max Verstappen",
        "Charles Leclerc",
        "Sergio Pérez",
        "Valtteri Bottas",
        "Lando Norris",
        "Daniel Ricciardo",
        "Fernando Alonso",
        "Sebastian Vettel",
        "Carlos Sainz"
    };
}
```

