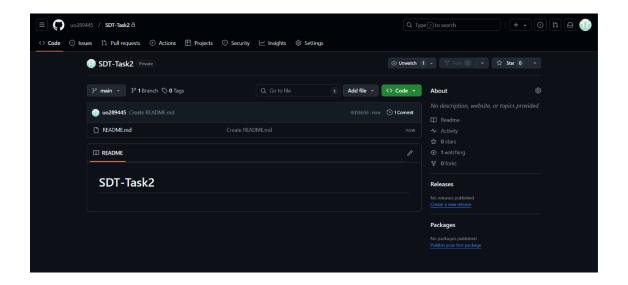
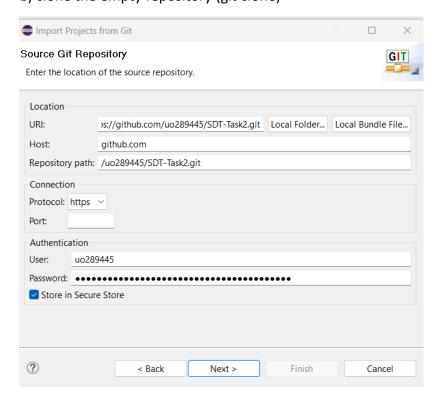
SDT-2nd Homework

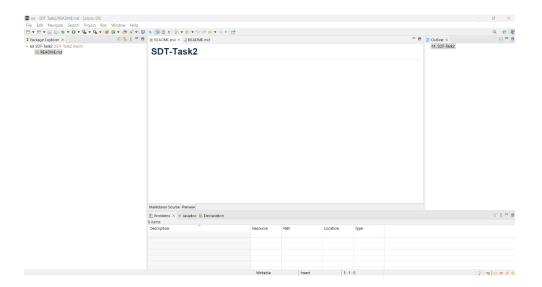
Tomás Cuesta García

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

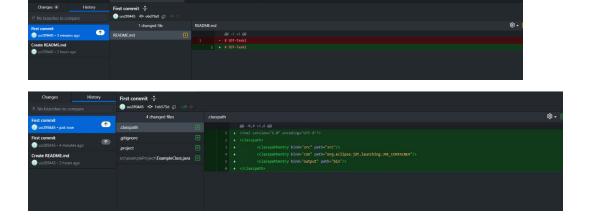
```
> exampleProject [SDT-Task2 main]

stricture src

> mal JRE System Library [jre]

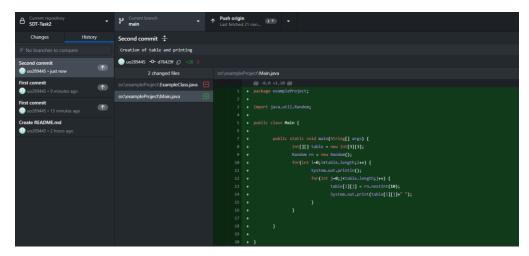
ReadDME.md
```

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

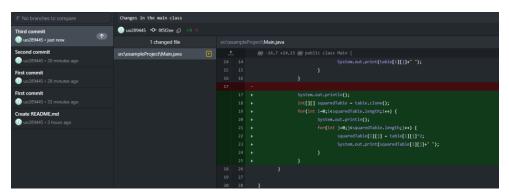


e) add simple code to the Java/C++/C# project (e.g. create table, write table elements)

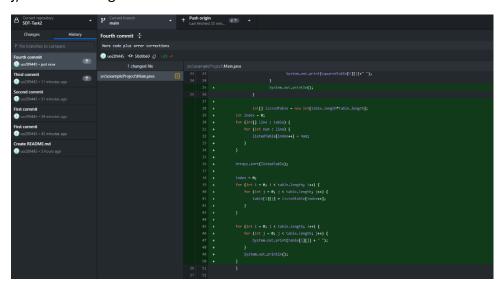
f) commit changes



- g) add more code (as I already used the random in the previous step i implemented another thing)
- h) commit changes



- i) add more code (e.g. sort table elements)
- j) commit changes



k) look at code history (git log)

```
Authored Date
                                                                                                                      Committed Date
                                                                      Author
                                                                                                      Committer
58d0b69 o main (HEAD) Fourth commit
                                                                      uo289445
                                                                                                      uo289445
                                                                                      4 minutes ago
                                                                                                                      4 minutes ago
8f5f2ee
         Third commit
                                                                      uo289445
                                                                                      15 minutes ago
                                                                                                      uo289445
                                                                                                                      15 minutes ago
         origin/HEAD origin/main Second commit
                                                                                      35 minutes ago
                                                                                                      uo289445
                                                                                                                      35 minutes ago
                                                                                      43 minutes ago
                                                                                                                      43 minutes ago
1cb373d
                                                                      uo289445
                                                                                                      uo289445
e6d79a8 First commit
8d5bb56 Create README.md
                                                                                                      uo289445
                                                                      uo289445
                                                                                      47 minutes ago
                                                                                                                      47 minutes ago
                                                                      uo289445
commit 58d0b6925888aeb3ad39271c2c999884cda83f7b (HEAD -> main)
Author: uo289445 <uo289445@uniovi.es>
Date: Thu Dec 5 17:53:21 2024 +0100
    Fourth commit
    More code plus error corrections
commit 8f5f2ee264a9bee846a0cba0d502f070183372eb
Author: uo289445 <uo289445@uniovi.es>
        Thu Dec 5 17:42:33 2024 +0100
    Third commit
    Changes in the main class
commit d76429f3f62b0247b8a08ecf1a29d84062b84e98 (origin/main, origin/HEAD)
Author: uo289445 <uo289445@uniovi.es>
Date: Thu Dec 5 17:22:23 2024 +0100
    Second commit
    mit 58d0b6925888aeb3ad39271c2c999884cda83f7b (HEAD -> main)
Author: uo289445 <uo289445@uniovi.es>
Date: Thu Dec 5 17:53:21 2024 +0100
```

I) look at code annotations (git blame)

```
uo289445@TOMS:/mnt/c/Users/tomac/Documents/GitHub/SDT-Task2S qit blame exampleProject/src/Main.java
fatal: no such path 'exampleProject/src/Main.java' in HEAD
00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100

    package exampleProject;

00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100
                                                                                                                                                                                                     import java.util.Arrays;
import java.util.Random;
00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100
00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100
                                                                                                                                                                                             6) public class Main {
                                                                                                                                                                                                                          public static void main(String[] args) {
                                                                                                                                                                                                                                                      int[][] table = new int[3][3];
00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 0000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 000000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 000000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 0000000 (Not Committed Yet 2024-12-05 18:30:30 +0100 0000000 (Not Committed Yet 2024-12-05 18:30:30 +0100 0000

    package exampleProject;

                                                                                                                                                                                            import java.util.Arrays;
                                                                                                                                                                                            4) import java.util.Random;
00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100
                                                                                                                                                                                           6) public class Main {
00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100
                                                                                                                                                                                                                          public static void main(String[] args) {
                                                                                                                                                                                                                                                     00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 9)
00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 10)
00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 11)
00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 12)
 00000000 (Not Committed Yet 2024-12-05 18:33:30 +0100 13)
```

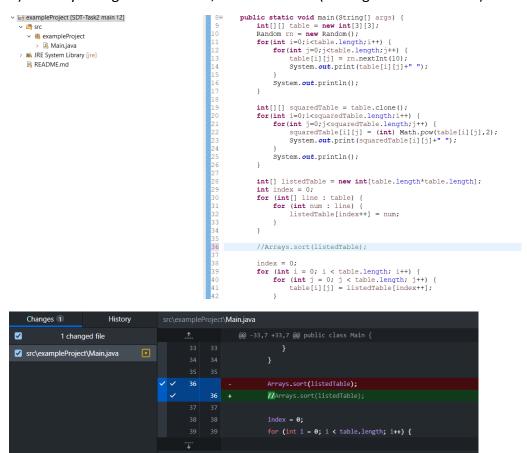
m) try to checkout different revisions (git checkout)

```
uo289445@TOMS:/mnt/c/Users/tomac/Documents/GitHub/SDT-Task2$ git checkout

M. .classpath
M. .project
M. src/exampleProject/Main.java
Your branch is ahead of 'origin/main' by 2 commits.

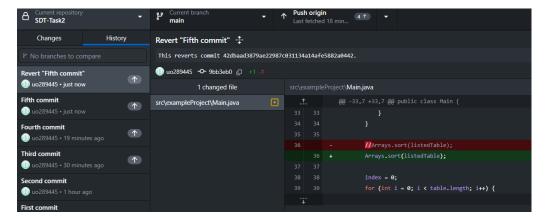
(use "git push" to publish your local commits)
```

n) add any changes to the code, do not commit (Sorting line commented)



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

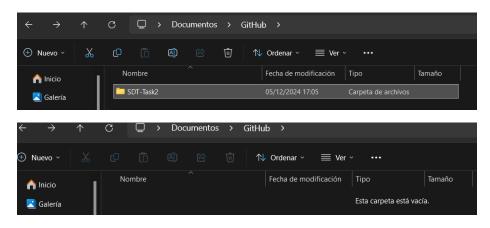
with the terminal I would be git revert and the id of the commit.



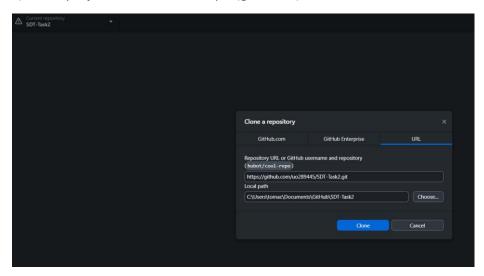
p) push the project to the remote repo (git push)



r) delete local project and local repo



s) clone project from remote repo (git clone)



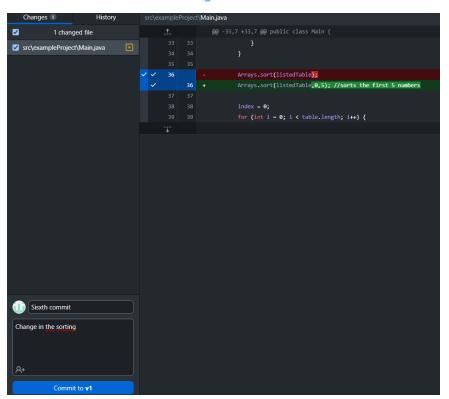
t) create tag/realese, try to switch between this tag and master branch (git branch, git tag)

u) create new branch from the master one

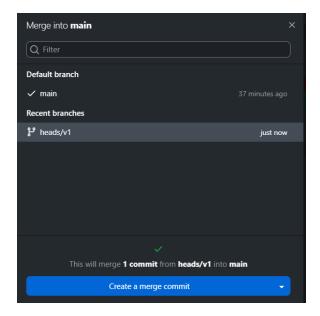
```
uo289445@TOMS:/mnt/c/Users/tomac/Documents/GitHub/SDT-Task2$ git branch
* main
v1
```

w) switch to branch (git merge)

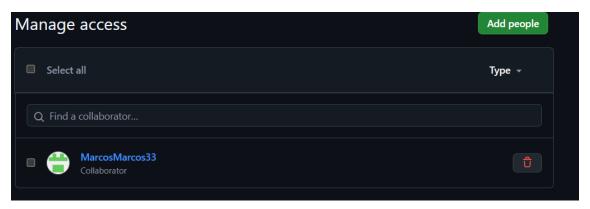
x) improve your code in a branch (e.g. change the sorting algorithm)



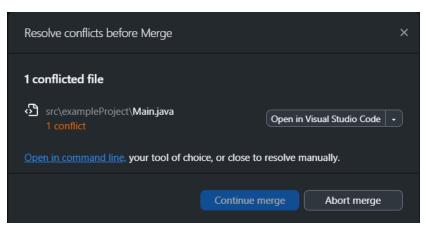
y) merge new branch into the master branch



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



z1) try to produce conflict



```
</>
<//>
HEAD

System.out.println();

int[][] squaredTable = table.clone();

for(int i=0;i<squaredTable.length;i++) {
    for(int j=0;j<squaredTable.length;j++) []
        squaredTable[i][j] = (int) Math.pow(table[i][j],2);
        System.out.print(squaredTable[i][j]+" ");

>>>>> heads/v1
}
```

z2) solve it and push the solution to remote repo

