

Week 1

How to setup the assignments repo locally and run the test cases?

Steps

1.Check node is available in your machine.using terminal!

```
node -v -->to check the node version
```

```
praveenkumars@PRAVEENKUMARS-MacBook-Pro ~ % node -v
v20.9.0
praveenkumars@PRAVEENKUMARS-MacBook-Pro ~ % npm -v
10.2.3
```

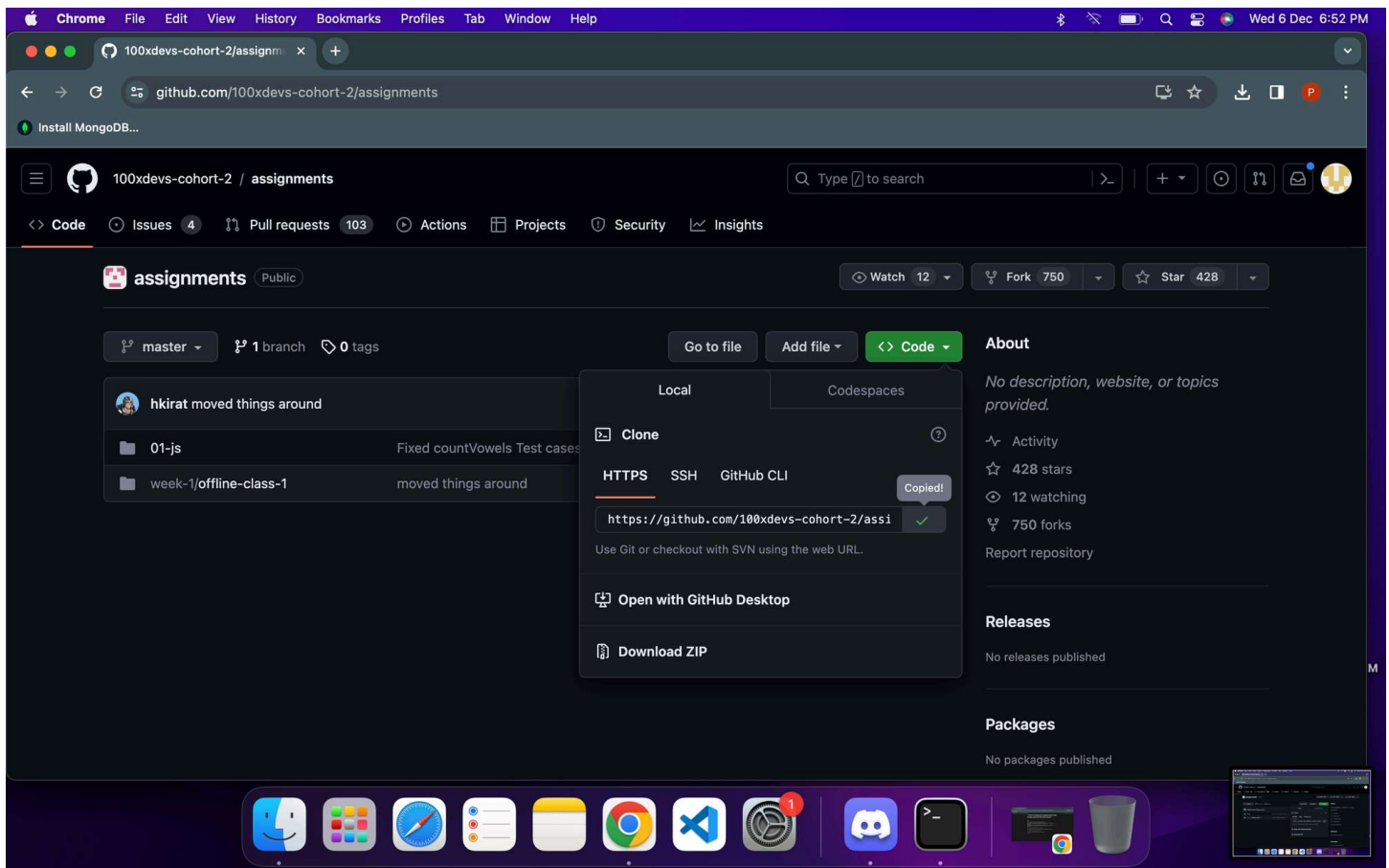
2.If it is already installed go to step 4.if not.step 3

3.install nodejs from [download nodejs](#) and setup it.refer youtube video if required.

4.install the vs code and complete the setup .

5.install and setup the git locally.refer youtube video.

6.Go to [assignments repo](#) and copy the link.or download the .zip file and open it.



1. open the terminal and use the command

```
git clone githuburl
```

```
praveenkumars@PRAVEENKUMARS-MacBook-Pro assignments % git clone https://github.com/100xdevs-cohort-2/assignments
```

8 . do the following commands the file will open in the vs code or manually open it.

```
praveenkumars@PRAVEENKUMARS-MacBook-Pro assignments % ls
assignments
praveenkumars@PRAVEENKUMARS-MacBook-Pro assignments % cd assignments
praveenkumars@PRAVEENKUMARS-MacBook-Pro assignments % ls
01-js    week-1
praveenkumars@PRAVEENKUMARS-MacBook-Pro assignments % cd 01-js
praveenkumars@PRAVEENKUMARS-MacBook-Pro 01-js % code .
```

9 .Now vs code will be open 01-js file.Go to easy folder choose any problem .I choose anagram.js and solve it.

```
1  /*
2  Write a function `isAnagram` which takes 2 parameters and returns true/false.
3  What's Anagram?
4  - A word, phrase, or name formed by rearranging the letters of another, such
5  */
6
7  function isAnagram(str1, str2) {
8    const cleanStr = (str) => str.replace(/\s/g, '').toLowerCase();
9    const sortedStr = (str) => cleanStr(str).split('').sort().join('');
10
11    return sortedStr(str1) === sortedStr(str2);
12  }
13
14
15
16
17  module.exports = isAnagram;
18
```

1. For running the test for particular problem. Open the terminal use the following command with your file name.

```
npx jest ./tests/anagram.test.js
```

The screenshot shows a VS Code editor with a file named `anagram.js` open. The code defines a function `isAnagram(str1, str2)` that checks if two strings are anagrams. It uses `replace` to remove spaces and `toLowerCase` to normalize the case. Then, it splits the strings into arrays, sorts them, and joins them back to compare. The function is exported as `module.exports = isAnagram`.

The terminal at the bottom shows the command `npx jest ./tests/anagram.test.js` being executed. The output indicates that all tests passed:

```
praveenkumars@PRAVEENKUMARS-MacBook-Pro 01-js % npx jest ./tests/anagram.test.js
PASS tests/anagram.test.js
  isAnagram
    ✓ returns true for anagrams (3 ms)
    ✓ returns false for non-anagrams (1 ms)
    ✓ returns true for anagrams with different casing (1 ms)
    ✓ returns true for anagrams with special characters (1 ms)
    ✓ returns false for non-anagrams with special characters (1 ms)

Test Suites: 1 passed, 1 total
Tests: 5 passed, 5 total
Snapshots: 0 total
Time: 0.257 s, estimated 1 s
Ran all test suites matching ./tests/anagram.test.js/i.
praveenkumars@PRAVEENKUMARS-MacBook-Pro 01-js %
```

The Explorer panel on the right shows the project structure, including a `tests` directory with several test files like `anagram.test.js`, `calculator.test.js`, etc.

1. For running all the test case use the following command

```
npx jest ./tests/
```

SUCCESSFULLY COMPLETED

*Note

To run the test case should be in correct directory for this week it is 01-js

IF ERROR OCCURS

RUN THE FOLLOWING COMMANDS

```
npm i -g
npm i npm -g
```

CHECK THE CURRENT DIRECTORY IT SHOULD BE 01-js

