

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
```

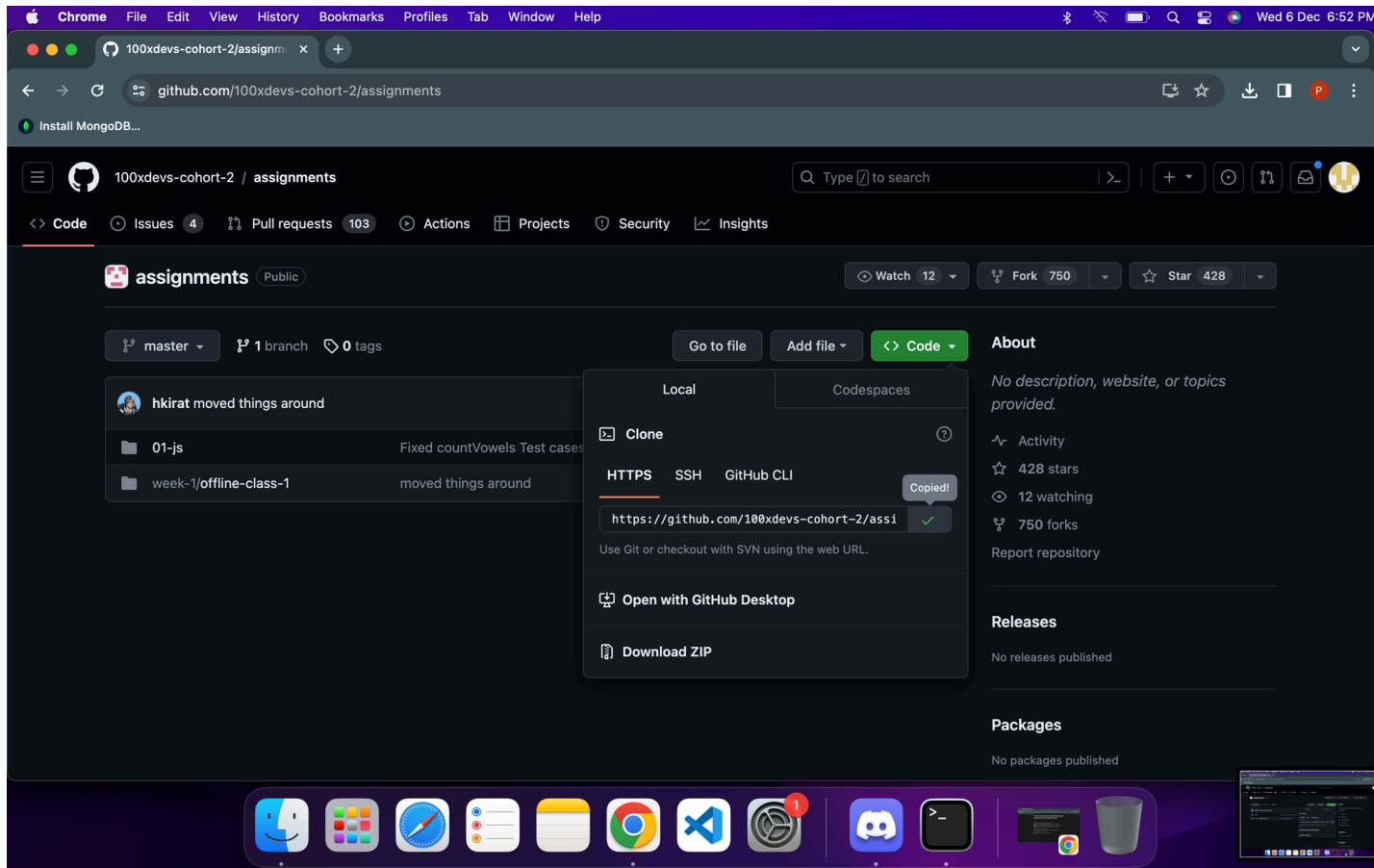
2. If it is already installed go to step 4. if not, step 3

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.

The screenshot shows a VS Code editor window with a dark theme. The main editor area displays the file `anagram.js` with the following content:

```
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
```

The Explorer sidebar on the right shows the file structure of the project:

- 01-JS
 - easy
 - `anagram.js`
 - `expenditure-analysis.js`
 - `findLargestElement.js`
 - hard
 - medium
 - tests
 - `package-lock.json`
 - `package.json`
 - `README.md`

The status bar at the bottom indicates the current line and column: `Ln 16, Col 1`. Other status bar items include `Spaces: 2`, `UTF-8`, `LF`, `{}`, `JavaScript`, `Go Live`, `II Ninja`, `tabnine starter`, `Prettier`, and a bell icon.

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 %
```

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