

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
```

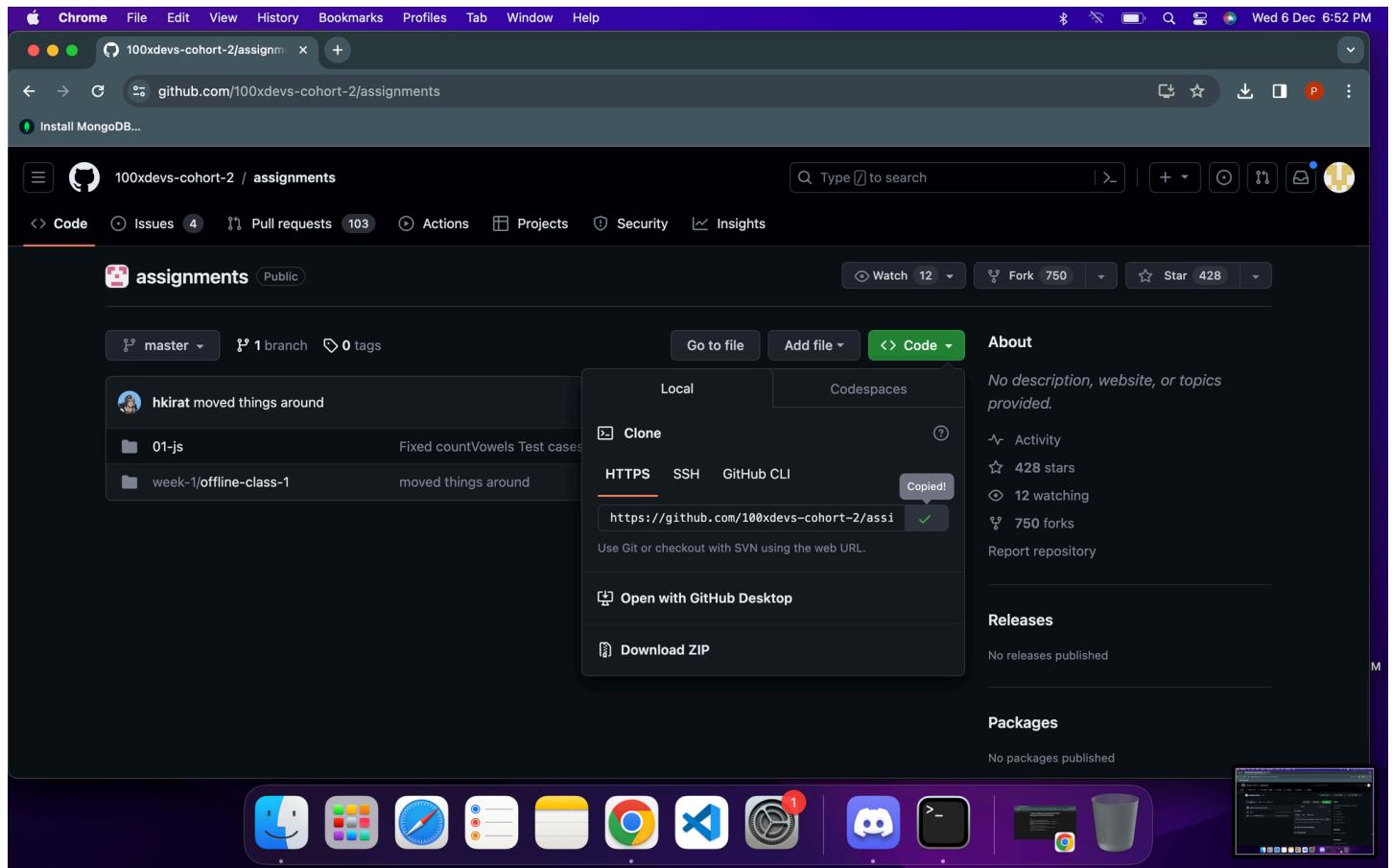
2.If it is already installed go to step 4.if not.step 3

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 the Visual Studio Code interface. The left side features the code editor with a file named 'anagram.js'. The code is a simple function to check if two strings are anagrams. The right side shows the 'EXPLORER' sidebar with a tree view of the project structure under '01-JS'. The terminal at the bottom has a command history and some status indicators.

```
anagram.js
easy > anagram.js > ...
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 as spar, formed from sprout.
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 the Visual Studio Code interface with the 'TERMINAL' tab active. The terminal output shows the execution of the Jest test suite for 'anagram.test.js'. The tests pass, with 1 test suite and 5 individual tests passed. The 'EXPLORER' sidebar on the right shows the project structure.

```
anagram.js
easy > anagram.js > isAnagram
1 /*
2  * Write a function 'isAnagram' which takes 2 parameters and returns true/false if those are anagrams
3  * What's Anagram?
4  * - A word, phrase, or name formed by rearranging the letters of another, such as spar, formed from sprout.
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
```

```
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