

# 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
```

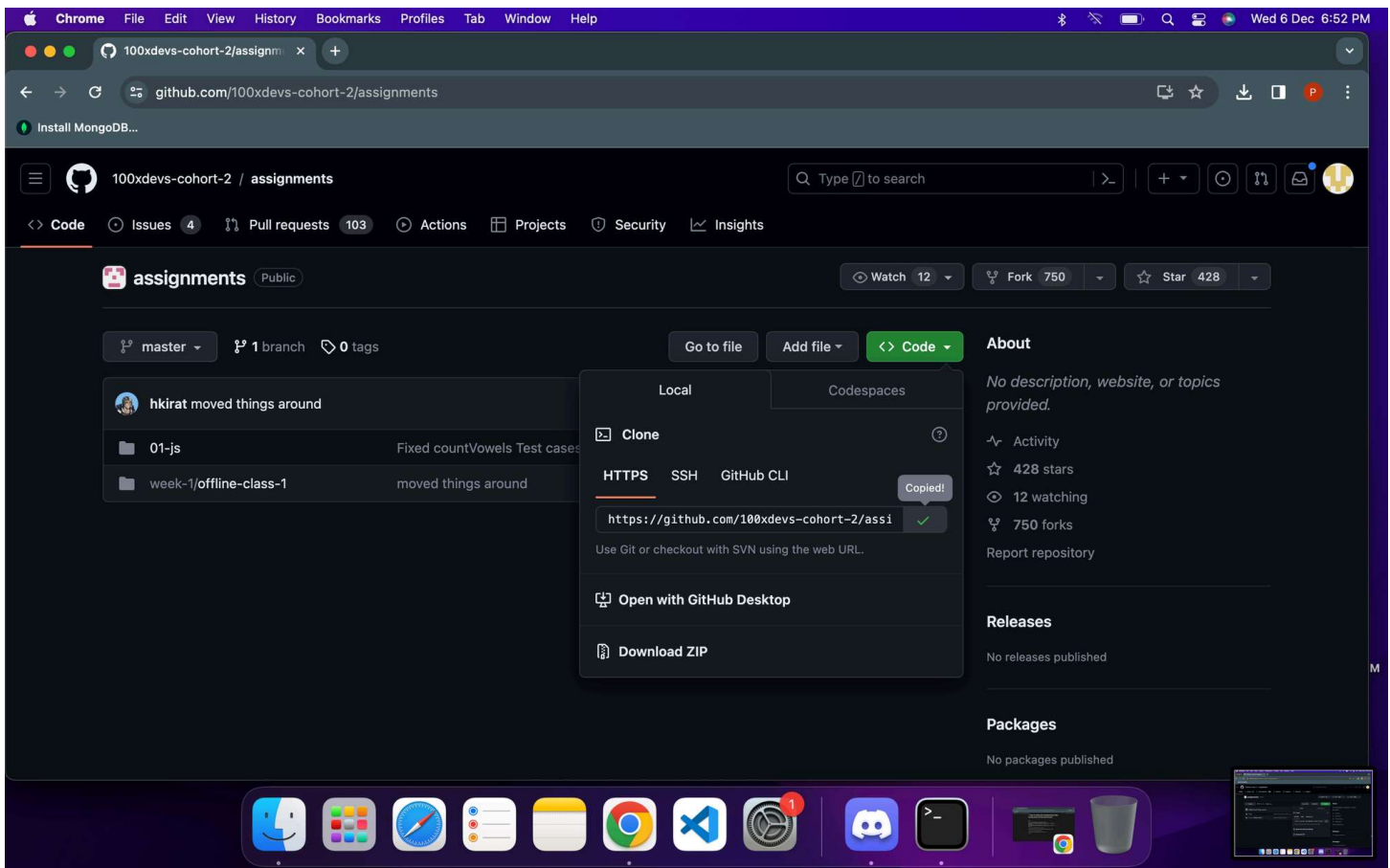
2.If it is already installed go to step 4.if not.step 3

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

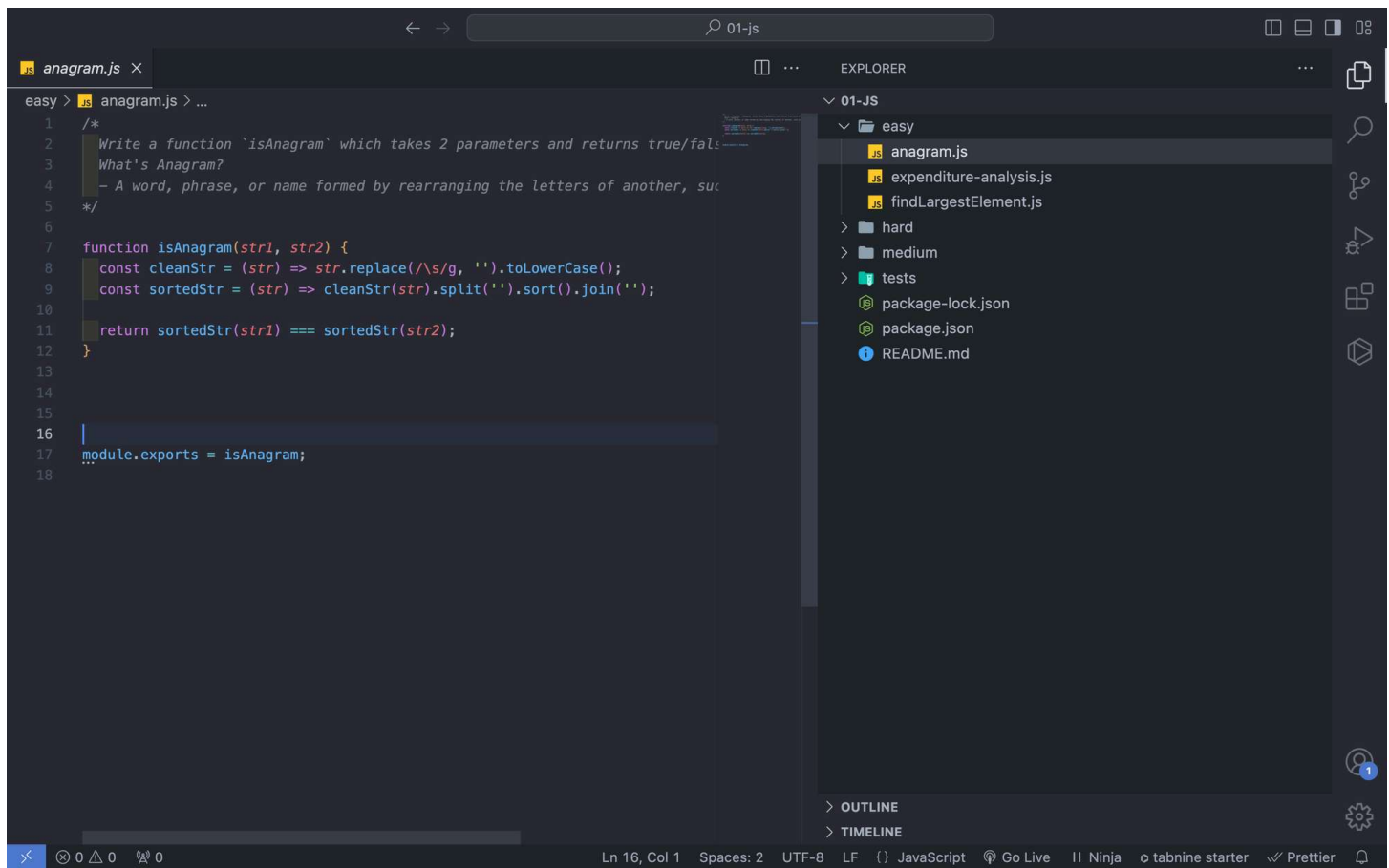
```
git clone githuburl
```

```
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   *   as 'cinema' comes from 'iceman'.
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
```

EXPLORER

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

Ln 16, Col 1 Spaces: 2 UTF-8 LF {} JavaScript Go Live II Ninja o tabnine starter ✓ Prettier

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 `cleanStr` to remove non-alphanumeric characters and `sortedStr` to sort the characters. The function returns `sortedStr(str1) === sortedStr(str2)`. The tests are located in `tests/anagram.test.js` and use Jest to verify the function's behavior.

```

1  easy > JS anagram.js > isAnagram
2  /*
3   Write a function 'isAnagram' which takes 2 parameters and returns true/false if those are anagrams
4   What's Anagram?
5   - A word, phrase, or name formed by rearranging the letters of another, such as spar, formed from
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   return sortedStr(str1) === sortedStr(str2);
11 }
12
13 module.exports = isAnagram;
14

```

```

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**

