

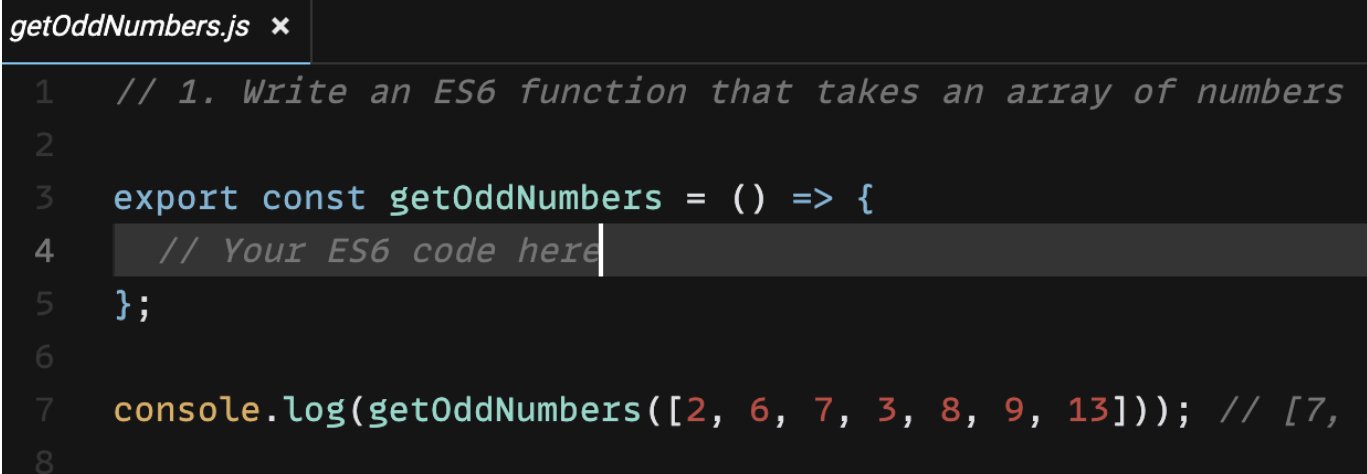
Assignment One

Please read:

- This is your first assignment which you need to submit here on the LMS. This assignment is based on ES6.
- Late Submission: The deadline to submit this assignment is 19th February 2024, 6:00PM IST.

What you have to do?

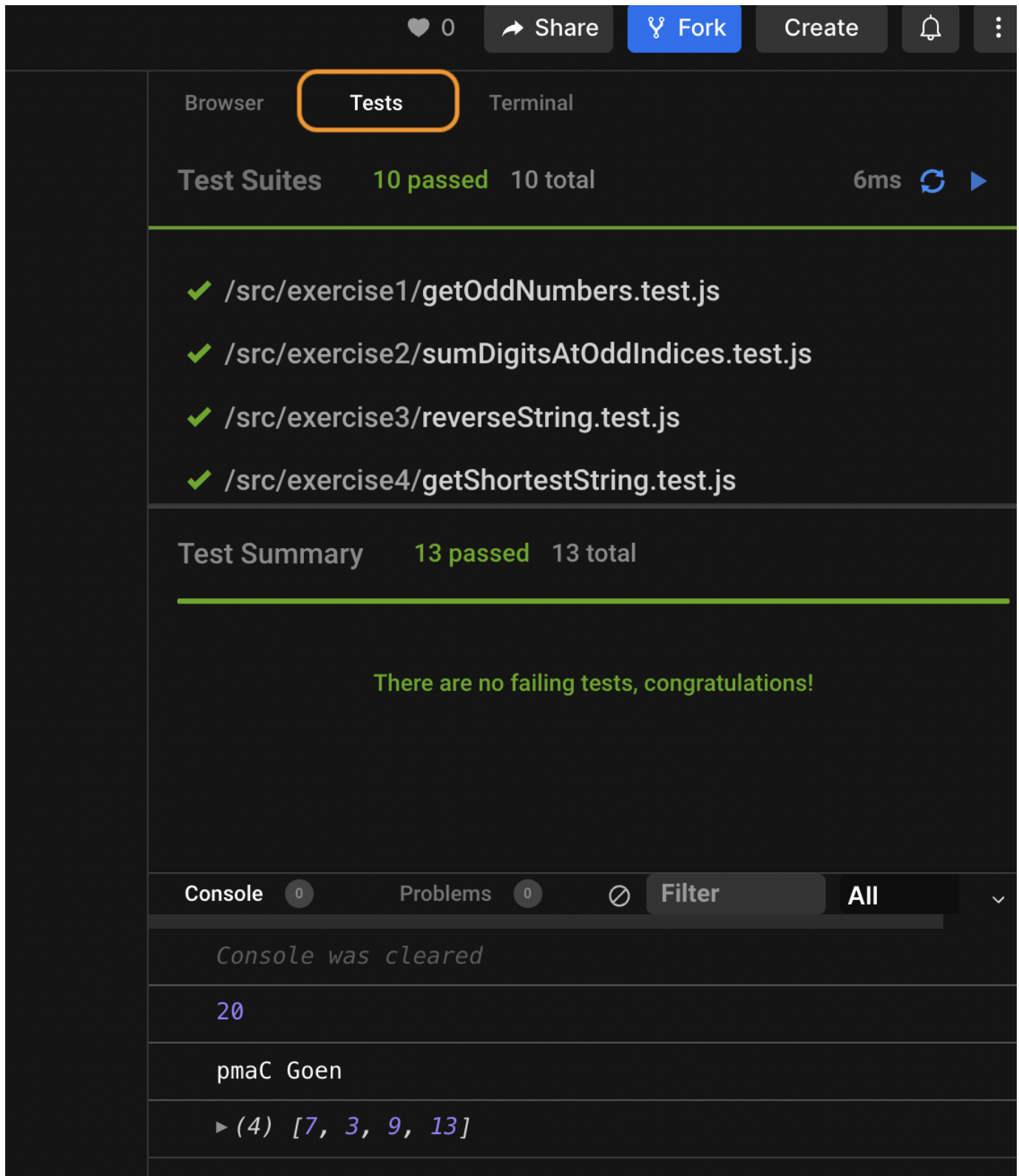
- Here is a template of CodeSandbox of where you have to write your solutions
- [codeSandbox](#) You need to fork this sandbox and write your solutions.
- There are multiple folders, one for each exercise. You need to write your code for each exercise under the comment line `// Your ES6 code here`



```
getOddNumbers.js ✕  
1 // 1. Write an ES6 function that takes an array of numbers  
2  
3 export const getOddNumbers = () => {  
4 // Your ES6 code here  
5 };  
6  
7 console.log(getOddNumbers([2, 6, 7, 3, 8, 9, 13])); // [7,  
8
```

- DO NOT change or write any code in the .test.js files.
- In this CodeSandbox, tests have been provided. You just need to write your solution and run the tests.

- You can check whether your solution is correct or not by going to the Tests tab on the right panel of CodeSandbox.



- Work on the questions given below and be ready with your solutions in CodeSandbox.
- You have to submit your CodeSandbox link below on this page.

Important Instructions:

- Avoid usage of in-built methods in JavaScript. You can make use of basic methods such as `length`, `toLowerCase()`, `toUpperCase()`, `push()` if needed.
- Make use of for-loops and if-else statements wherever needed.
- Do not copy from someone else as that would be cheating. We have already provided you enough practice questions before, so that you get comfortable doing this assignment.
- Once completed, you should post your assignment solution in your team or pod and get it reviewed by your friends before submitting it on the LMS for final review.

Please note that this assignment should take 2-3 hours of your time at max if you have practiced the previously given practice set questions.

Questions:

These questions are provided just for reference here. These are the same questions as in the CodeSandbox provided above.

- Write an ES6 function that takes an array of numbers and returns a new array with only the odd numbers. Avoid using in-built methods.

// Your ES6 code here

```
console.log(getOddNumbers([2, 6, 7, 3, 8, 9, 13])) // [7, 3, 9, 13]
```

[COPY](#)

- Write an ES6 function which takes an array of digits and return the sum of all digits present at odd indices. Avoid using in-built methods.

// Your ES6 code here

```
console.log(sumDigitsAtOddIndices([1, 2, 3, 4, 5, 6, 7, 8, 9])) // 20
```

[COPY](#)

- Write an ES6 function to reverse a string in JavaScript without using in-built methods.

// Your ES6 code here

```
console.log(reverseString('file')) // eLif
```

[COPY](#)

- Write an ES6 function that takes an array of strings and returns the shortest string in the array.

// Your ES6 code here

```
console.log(getShortestString(['primary', 'secondary', 'education', 'exams']))  
// exams
```

[COPY](#)

- Write an ES6 function that takes two array of numbers of equal length and returns a new array with the sum of each corresponding element in the two arrays. Avoid using in-built methods.

// Your ES6 code here

```
console.log(sumArrays([1, 2, 3, 4], [1, 2, 3, 5])) // [2, 4, 6, 9]
```

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- Write an ES6 function that takes an object with x and y properties and returns an array containing the values of x and y.

// Your ES6 code here

```
const point = { x: 5, y: 10 }  
console.log(getCoordinates(point)) // [5, 10]
```

COPY

- Write an ES6 function that takes an object representing a car and returns its make, model and year using object destructuring.

// Your ES6 code here

```
const car = {  
  make: 'Toyota',  
  model: 'Corolla',  
  year: 2015,  
  color: 'gray',  
}  
getCarDetails(car) // "Make: Toyota, Model: Corolla, Year: 2015"
```

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- Write an ES6 function that takes an object with title and author properties and returns a string in the format "{title} by {author}". Do this using template literals and destructuring.

// Your ES6 code here

```
const book = { title: 'The Hobbit', author: 'J.R.R. Tolkien' }  
console.log(getBookInfo(book)) // "The Hobbit by J.R.R. Tolkien"
```

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- Write an ES6 function that takes two strings as input and determines if they are the same or not.

// Your ES6 code here

```
console.log(areStringsEqual('Apple', 'Apple')) // true  
console.log(areStringsEqual('Apple', 'apple')) // false  
console.log(areStringsEqual('Papaya', 'Watermelon')) // false
```

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- Write an ES6 function that takes an array of objects, each with name and age properties, and returns an array containing the names of all people whose age is greater than or equal to 60.

Avoid using in-built methods.

// Your ES6 code here

```
const people = [  
  { name: 'Alice', age: 69 },  
  { name: 'Bob', age: 47 },  
  { name: 'Charlie', age: 70 },  
]  
console.log(getNamesOfAdults(people)) // Output: ["Alice", "Charlie"]
```

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All the best. We hope you complete and submit your assignment in time.

Click on the Share button on your CodeSandbox, then click on Copy link button and submit that link here in the submission form below. Make sure the access is public.

