

Question #01

```
function countdown(number) {  
  console.log(number);  
  const intervalId = setInterval(() => {  
    if (number > 0) {  
      number--;  
    } else {  
      console.log("DONE!");  
      clearInterval(intervalId);  
    }  
  }, 1000);  
}
```

Output	4	first.js:51
	3	first.js:51
	2	first.js:51
	1	Activate Windowsfirst.js:51
	DONE!	Go to Settings to activate Windowsfirst.js:54



## Question #02

unction

if(num%2=0)i

true

else

console.log(false);

if(num%2! = 0){

```
}  
IsEven(6);
```

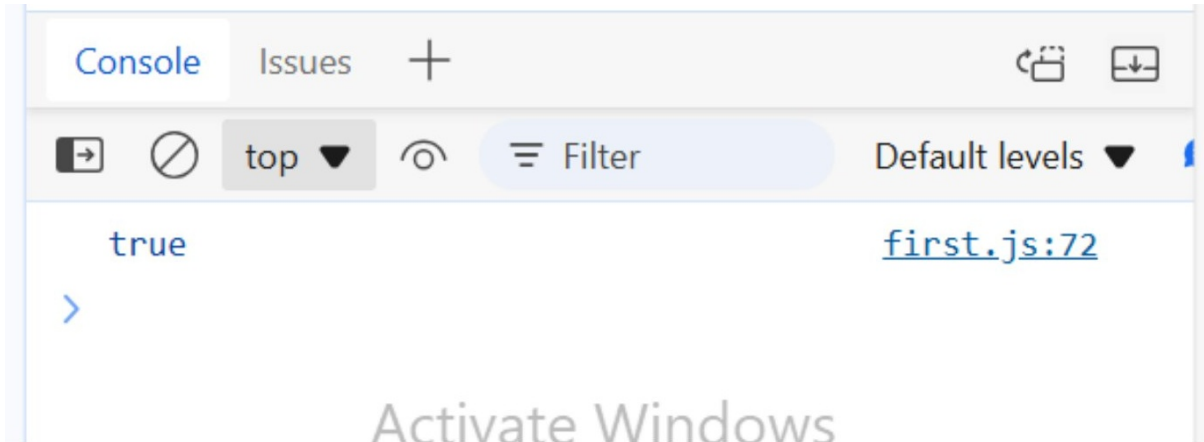
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Console Issues			
	top	Filter	Default levels
	true	<a href="#">first.js:63</a>	

Question #03

```
function IsOdd(num){

    console.log(true);

}
else
```



Question #04

```
function isPrime(num) {  
  if (num <= 1) return false;  
  
  for (let i = 2; i <= Math.sqrt(num); i++) {  
    if (num % i === 0) {  
      return false;  
    }  
  }  
}
```

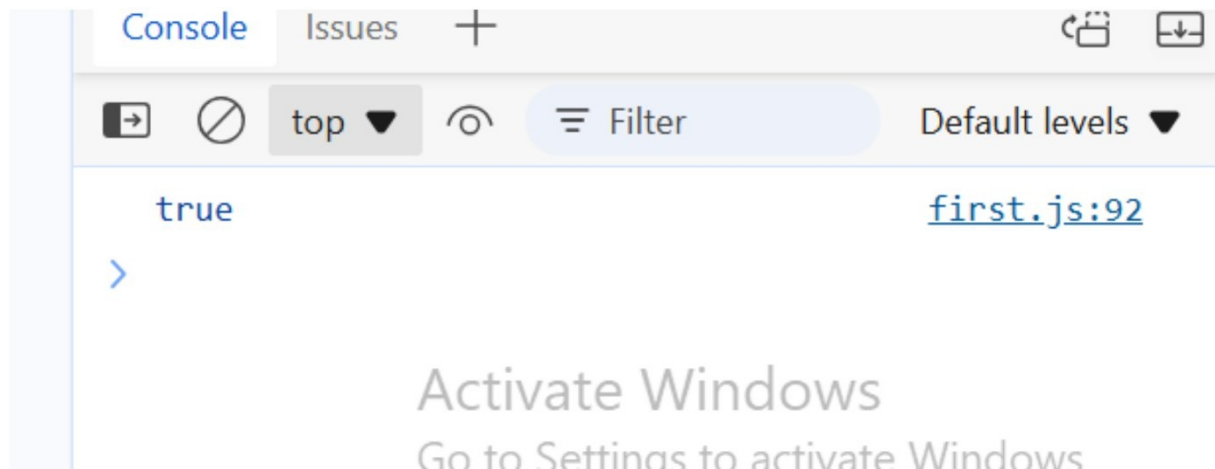
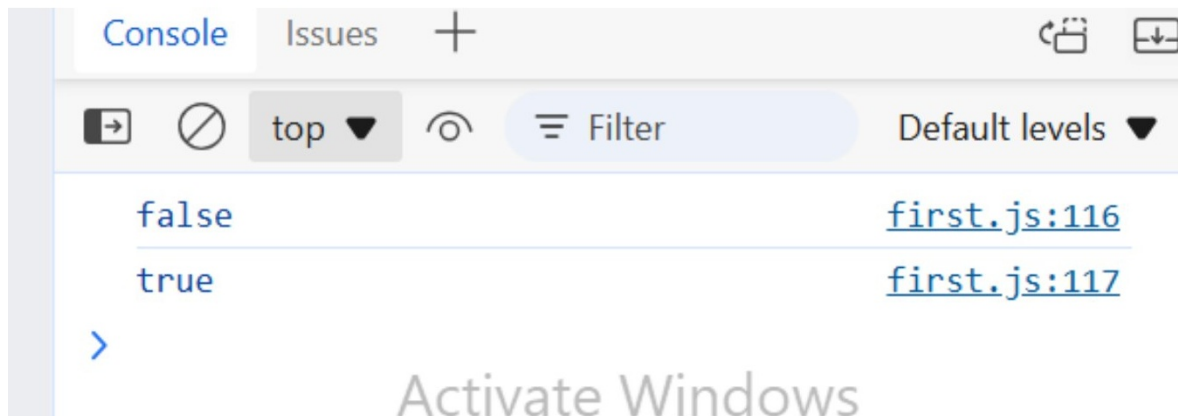
```

    }
  }

  return true;
}

console.log(isPrime(8));
console.log(isPrime(17));

```



```

function isPrime(num) {
  if (num <= 1) return false;

  for (let i = 2; i <= Math.sqrt(num); i++) {
    if (num % i === 0) {

```

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false <a href="#">first.js:83</a>			

Input

```
function IsOdd(num){
    if(num % 2 !=0){
        console.log(true)
    }
    else
        console.log(false);
}

function numberfact(num
,return (callback(59))
}

numberfact(59, IsOdd);
```

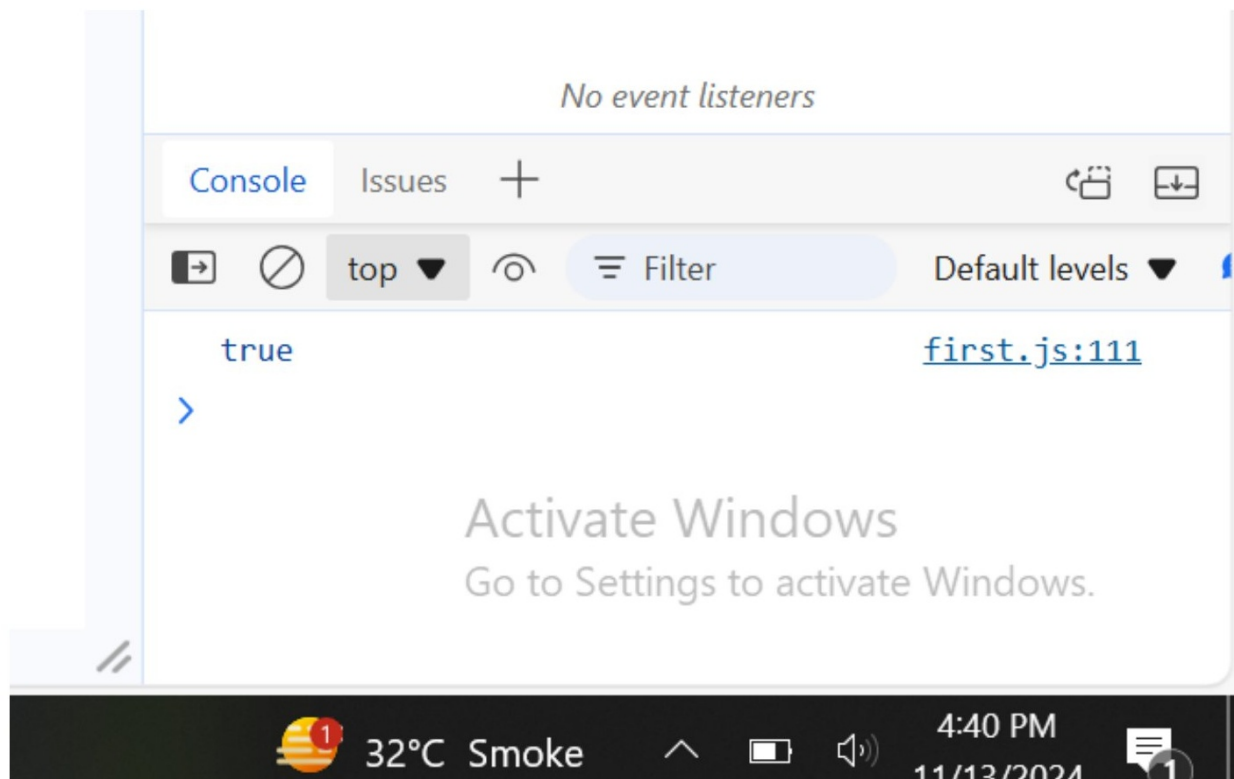
Output

```

        console.log(false);
    }
}

console.log(true);
}
function numberfact(num , callback){
    return (callback(59))
}
numberfact(59, isPrime);

```



Question 6

```

function find(array, callback) {

    for (let i = 0; i < array.length; i++) {

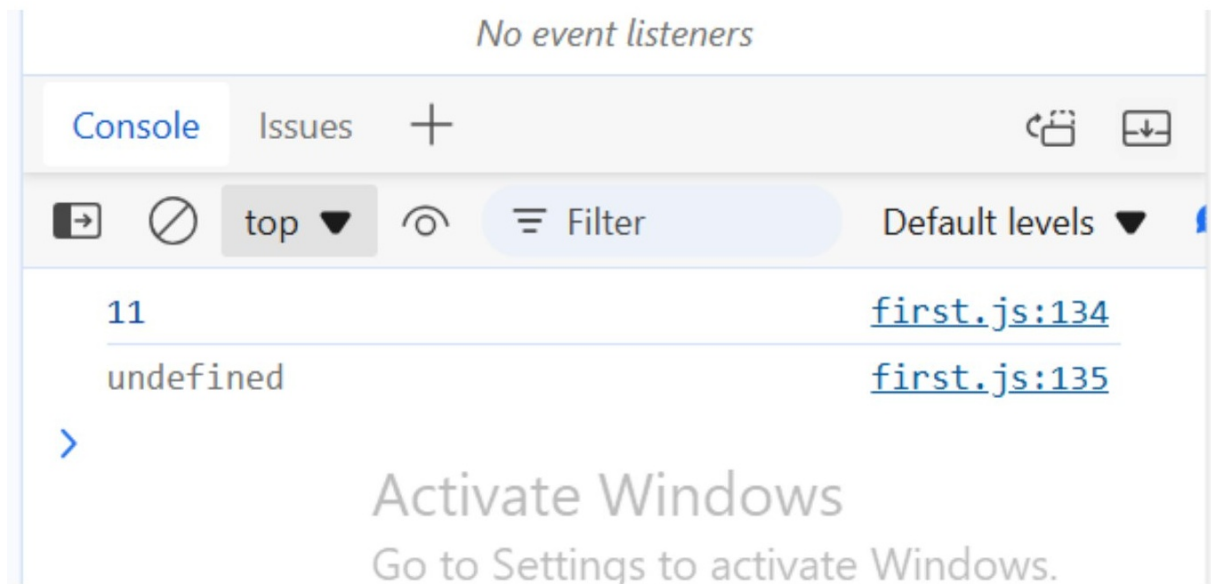
        if (callback(array[i])) {
            return array[i];
        }
    }
    return undefined;
}

```

```
}
```

```
// Test cases
```

```
function return  
    nction et rn
```



Question 7



```
function findIndex(array, callback) {  
  for (let i = 0; i < array.length; i++) {  
    if (callback(array[i])) {  
      return i;  
    }  
  }  
  return undefined;  
}
```



```
console.log(findIndex([8, 11, 4, 27], function(val) { return val >= 10; }));  
console.log(findIndex([8, 11, 4, 27], function(val) { return val === 7; }));
```

No event listeners

Console

Issues

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1

undefined

[first.js:145](#)

[first.js:146](#)



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Question 8

function

if arguments. ===2)

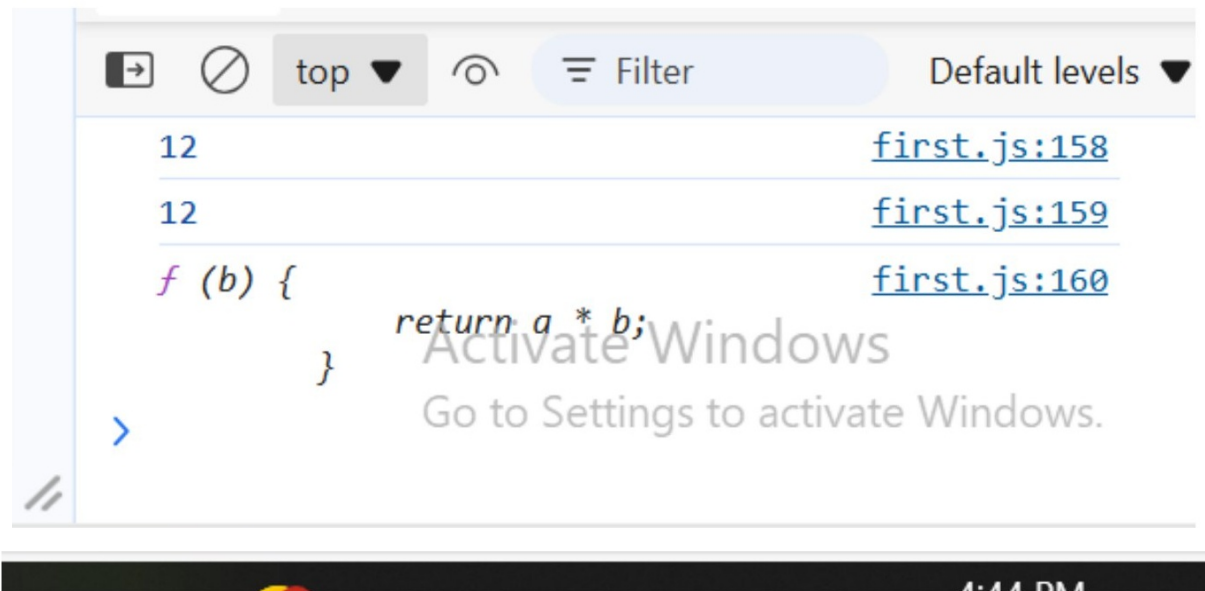
return

else

return function

return





Question 9

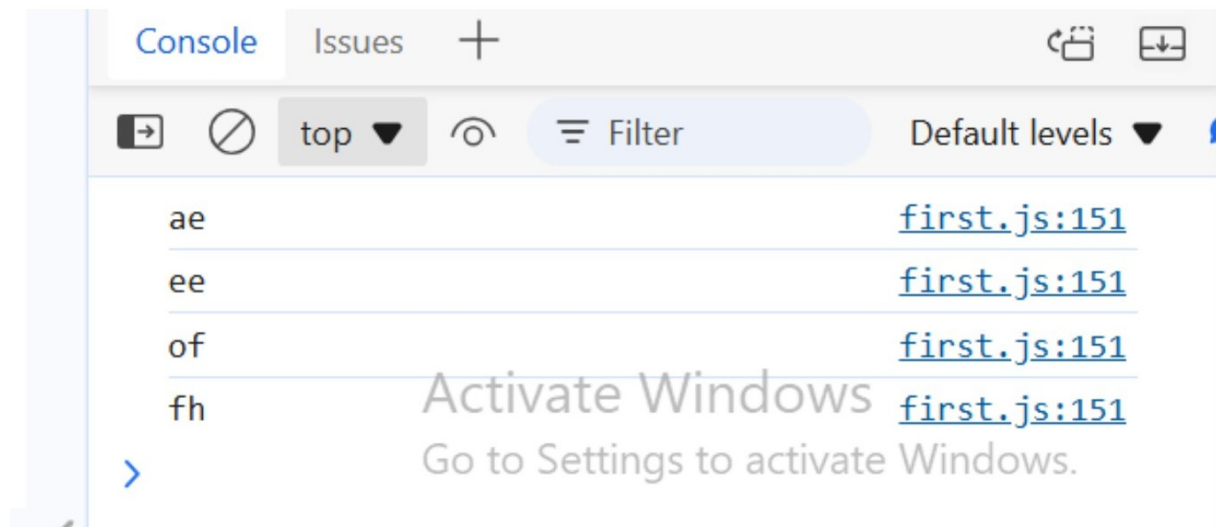
u c

function

const

const

wesome' ple' f



Question 10

function

function

return

}

const

'Elie'

'Tim'

lie

"isInstructor"

true





top ▼



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(3)[{-},{-},{-}]i

0:{name: 'Elie', isInstructor: true}

1: {name: 'Tim', isInstructor: true}

2: {name: 'Elie', isInstructor: true}length: 3Activate

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top Filter Default levels

▶ (3) [0, 2, 6]

[first.js:192](#)

▶ (3) [0, 10, 30]

[first.js:193](#)

Qu >

```
function valTimesIndex(arr) {  
  return arr.map((value, index) => value * index);  
}
```

```
console.log(valTimesIndex([1, 2, 3]));  
console.log(valTimesIndex([5, 10, 15]));
```



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Question 12

function

return . function o  
return

const

E  
true  
"name"

true

Tim

true

"Matt"

Question



top

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Default levels

(3) ['*Elie*', '*Tim*', 'Matt']i [first.js:206](#)

0: "Elie"

1: "Tim"

2: "Matt"

length:3Activate Windows

[[Prototype]]: Array(9) to activate Windows.

Question 13

function

return

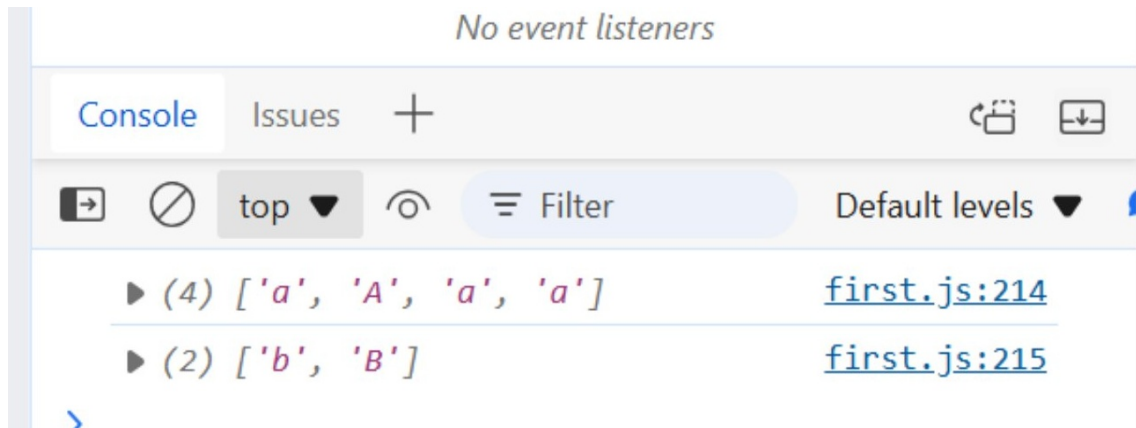
function

return

了

'b' 'B' 'a'

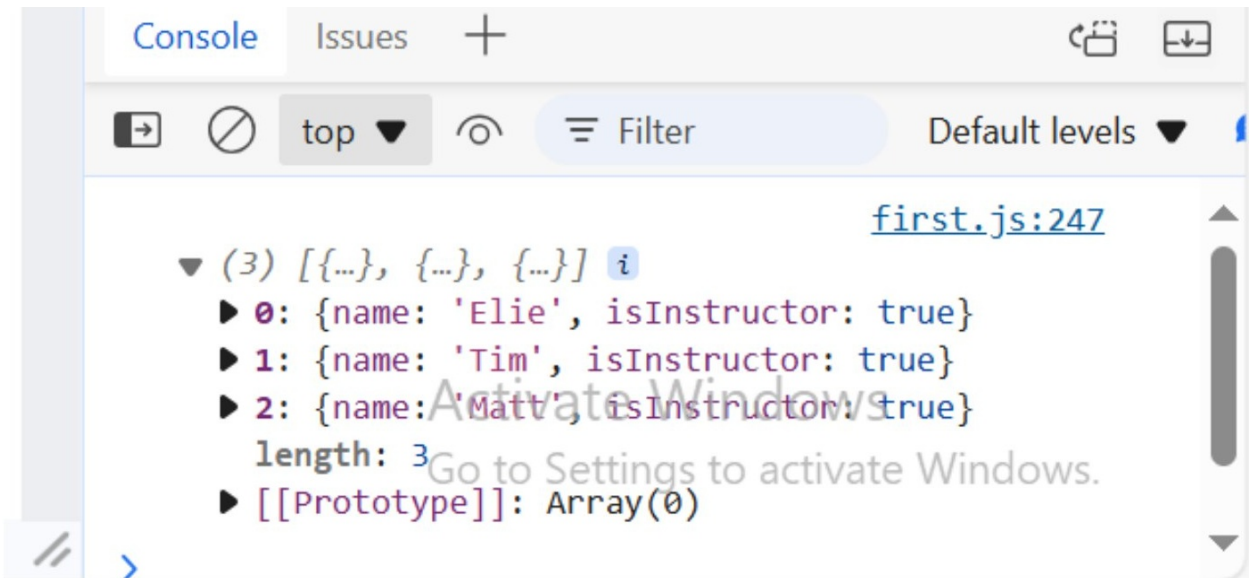
c



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Question 14

```
function filterKey(arr, key) {  
  return arr.filter(function(obj) {  
    return obj[key];  
  });  
}  
  
const result = filterKey(  
  [{ name: "Elie", isInstructor: true, isHilarious: false },  
    { name: "Tim", isInstructor: true, isHilarious: true },  
    { name: "Matt", isInstructor: true }],  
  "isHilarious"  
);  
  
console.log(result);
```

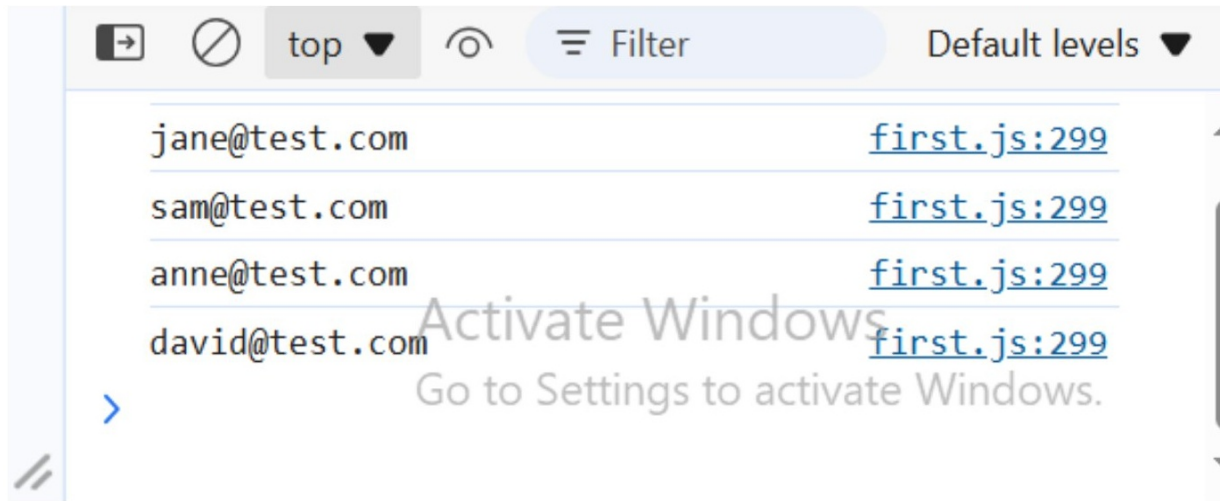


Question 15

```
function addKeyAndValue(arr, key, value) {  
  return arr.map(function(obj) {  
  
    let newObj = { ...obj };  
    newObj[key] = value;  
    return newObj;  
  });  
}  
  
const result = addKeyAndValue(  
  [{ name: 'Elie' }, { name: 'Tim' }, { name: 'Matt' }],  
  "isInstructor",  
  true  
);  
  
console.log(result);
```

## Question 16

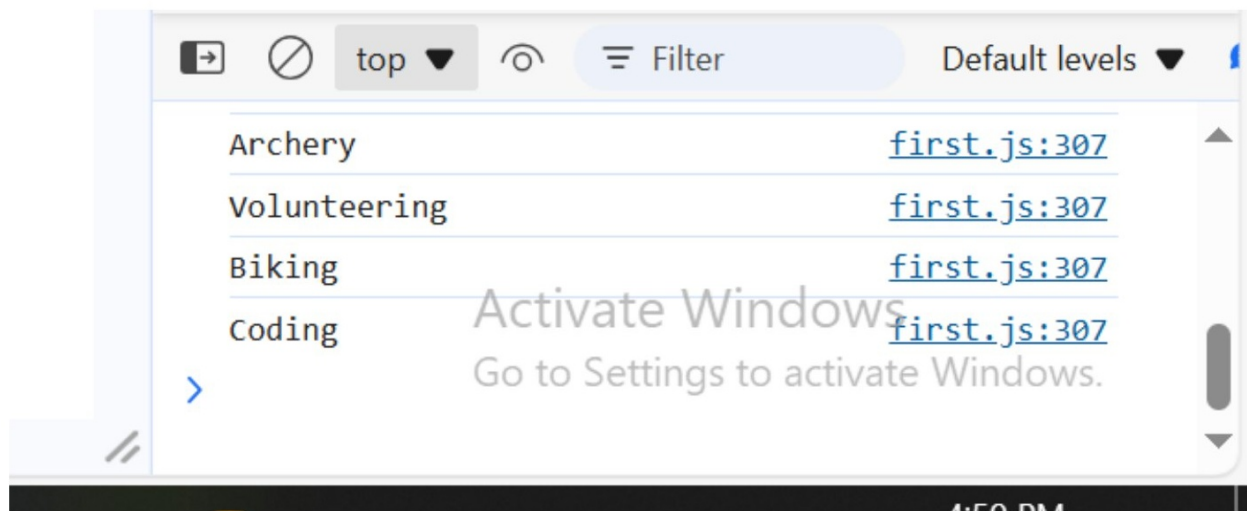
### Part a



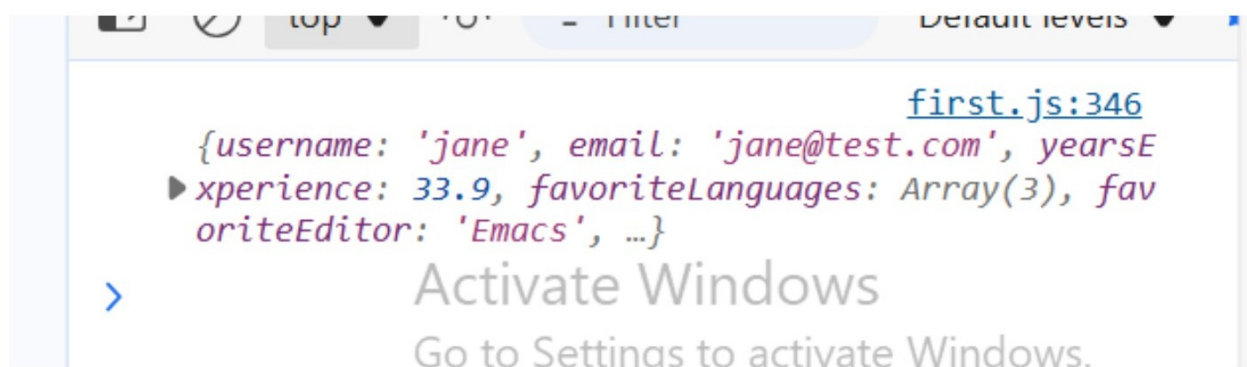
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sam@test.com	<a href="#">first.js:299</a>
anne@test.com	<a href="#">first.js:299</a>
david@test.com	<a href="#">first.js:299</a>

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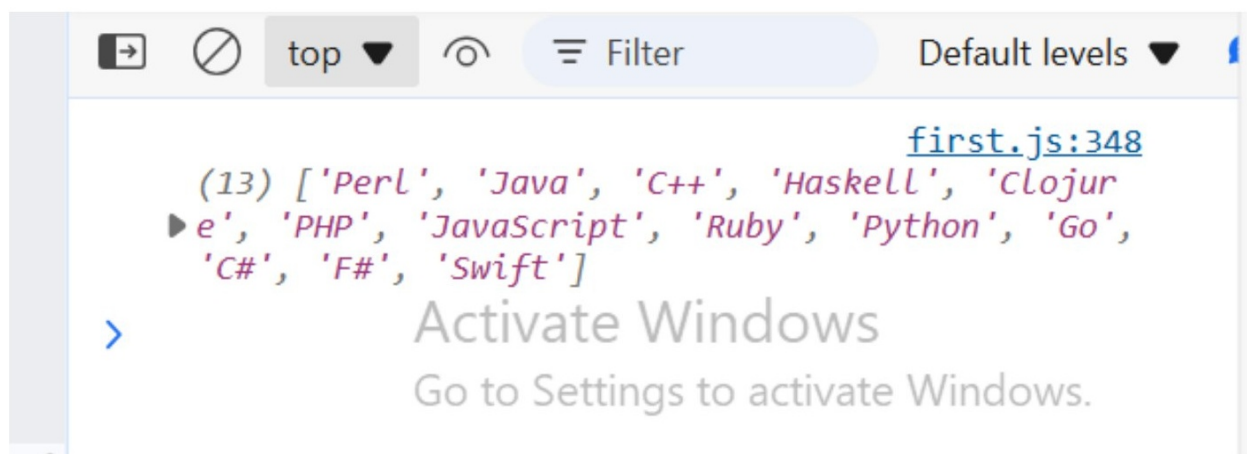
Part b



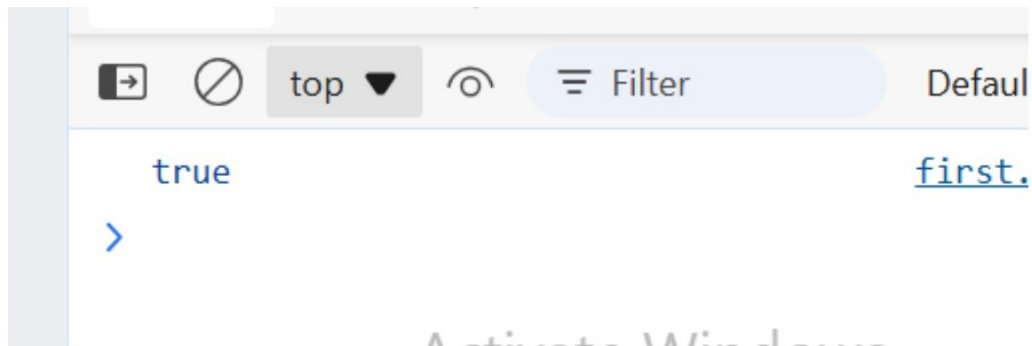
Part c



Part d

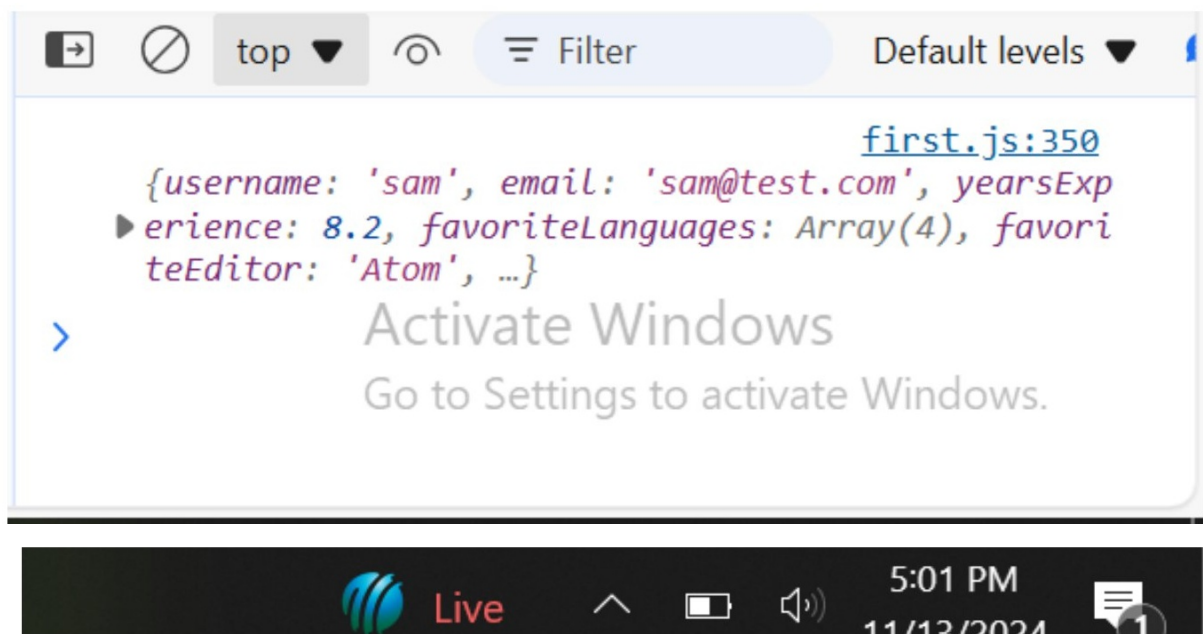


Part e



Part f

```
console.log(findByUsername('sam'));
```



Part 17

function

let 'aeiou'

let

str=str.toLowerCase();



for let of

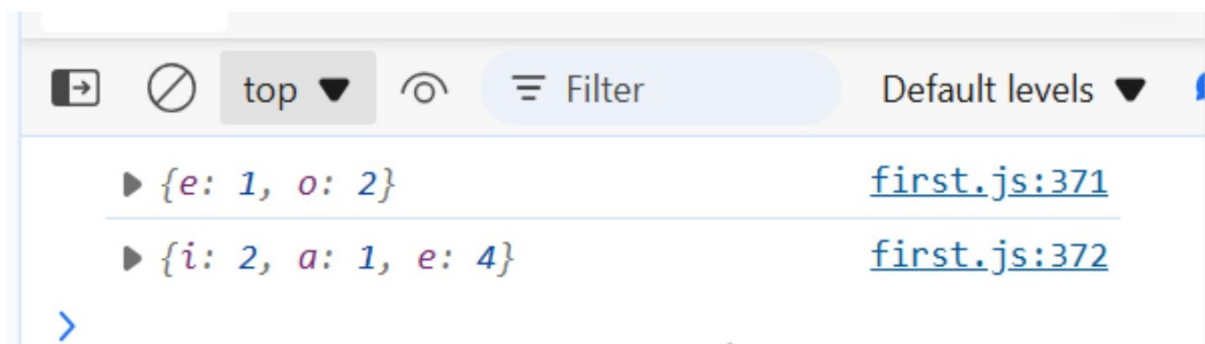
if

if

s

```
        vowelMap[char] = 1;
    }
}

return vowelMap;
}
console.log(vowelCount("hello world"));
console.log(vowelCount("This is a test sentence"));
```



Question 18

top ▼

Filter

Default levels ▼

▶ (8) ['h', 'l', 'l', ' ', 'w', 'r', 'l', 'd']

[first.js:387](#)

▶ (10) ['T', 'h', 's', ' ', 's', ' ', ' ', 't', 's', 't']

[first.js:388](#)

>

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```
console.log(removeVowels( "HELLO WORLD" ));  
console.log(removeVowels("This is a test"));
```



Live



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