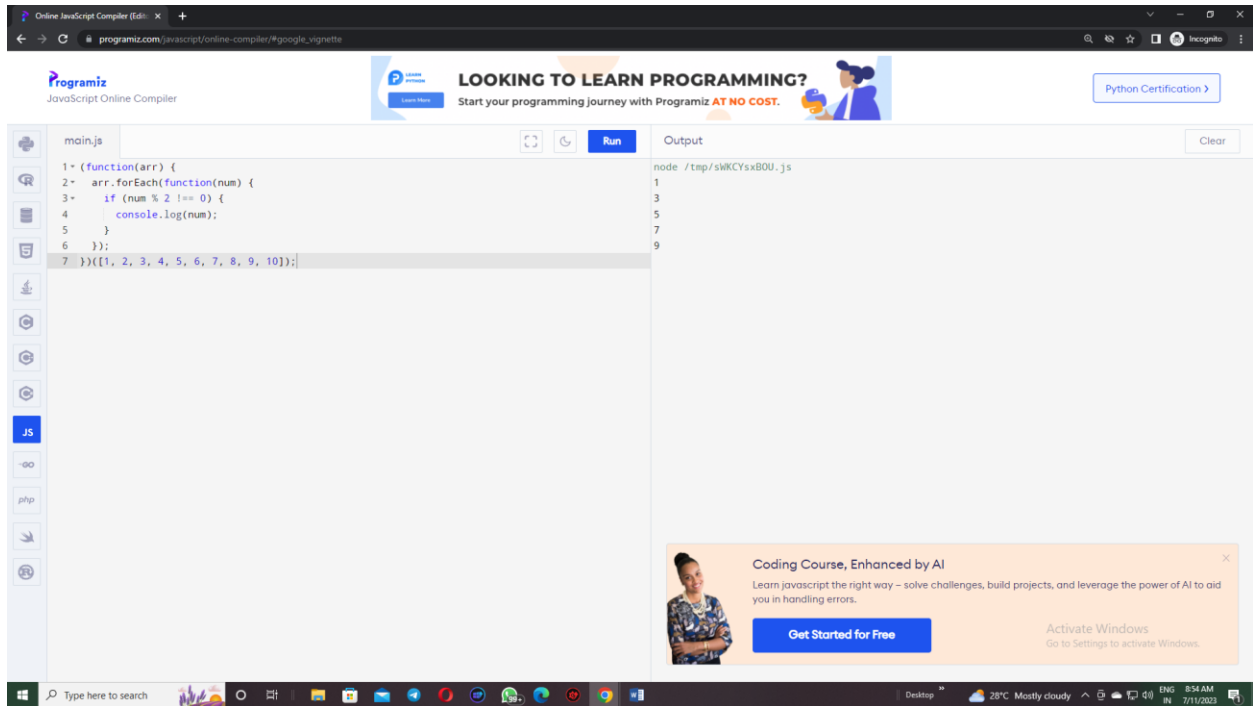


1. Do the below programs in anonymous function & IIFE

A. Print odd numbers in an array

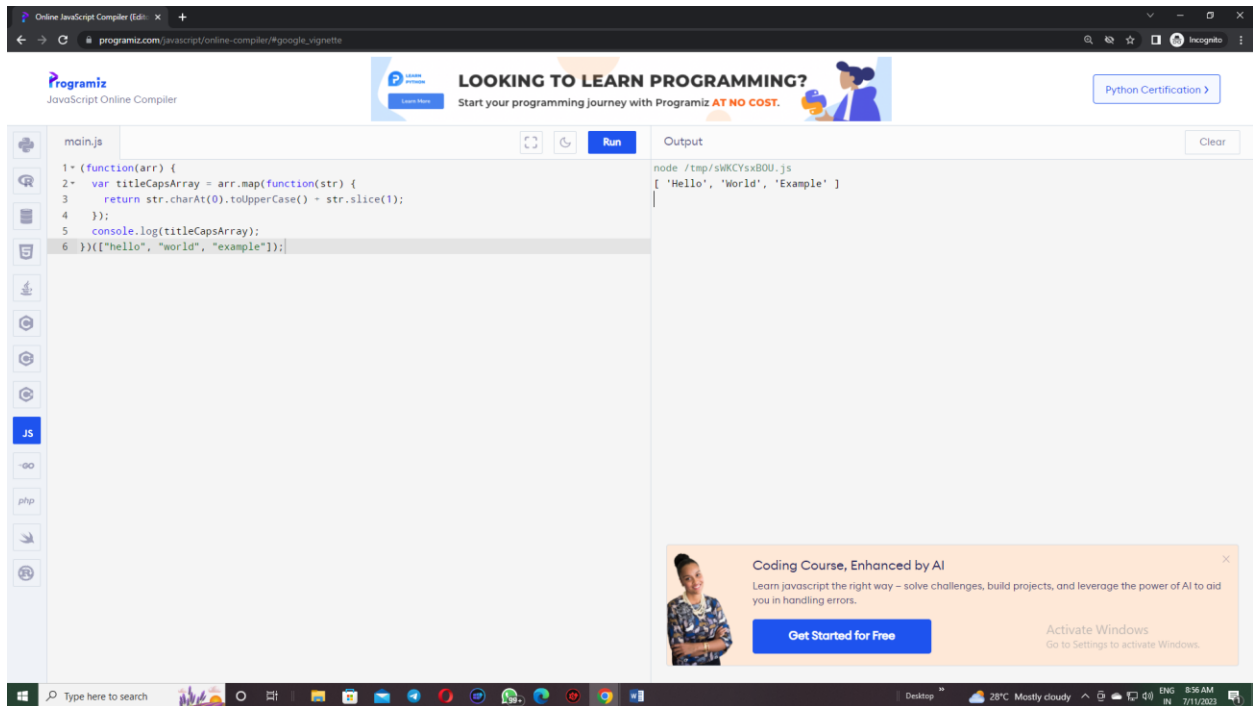


The screenshot shows the Programiz Online JavaScript Compiler interface. The code editor contains the following JavaScript code:

```
1< (function(arr) {  
2<   arr.forEach(function(num) {  
3<     if (num % 2 !== 0) {  
4<       console.log(num);  
5<     }  
6<   });  
7< })([1, 2, 3, 4, 5, 6, 7, 8, 9, 10]);
```

The output console displays the numbers 1, 3, 5, 7, and 9, which are the odd numbers from the array [1, 2, 3, 4, 5, 6, 7, 8, 9, 10].

B. Convert all the strings to title caps in a string array



The screenshot shows the Programiz Online JavaScript Compiler interface. The code editor contains the following JavaScript code:

```
1< (function(arr) {  
2<   var titleCapsArray = arr.map(function(str) {  
3<     return str.charAt(0).toUpperCase() + str.slice(1);  
4<   });  
5<   console.log(titleCapsArray);  
6< })(["hello", "world", "example"]);
```

The output console displays the array ['Hello', 'World', 'Example'], where each string from the input array has been converted to title case.

C. Sum of all numbers in an array

The screenshot shows the Programiz Online JavaScript Compiler interface. The code editor on the left contains a JavaScript function named `sum` that takes an array `arr` and returns the sum of its elements using `reduce`. The function is called with the array `[1, 2, 3, 4, 5]`. The output on the right shows the result `15`. The browser's address bar shows the URL `programiz.com/javascript/online-compiler/#google_vignette`. The Programiz logo and a banner for 'LOOKING TO LEARN PROGRAMMING?' are visible at the top. A sidebar on the left contains icons for various programming languages, with 'JS' (JavaScript) selected. A Windows taskbar is visible at the bottom, showing the time as 8:57 AM on 7/11/2023.

```
1 * (function(arr) {
2 *   var sum = arr.reduce(function(total, num) {
3 *     return total + num;
4 *   }, 0);
5 *   console.log(sum);
6 * })([1, 2, 3, 4, 5]);
```

Output

```
node /tmp/slWKCysxBOU.js
15
```

D.Return all the prime numbers in an array

The screenshot shows the Programiz Online JavaScript Compiler interface. The code editor on the left contains a JavaScript function named `isPrime` that checks if a number is prime. It uses a `for` loop to test divisibility from 2 to the square root of the number. The function is used to filter an array `[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]` to find all prime numbers. The output on the right shows the resulting array `[2, 3, 5, 7]`. The browser's address bar shows the URL `programiz.com/javascript/online-compiler/#google_vignette`. The Programiz logo and a banner for 'LOOKING TO LEARN PROGRAMMING?' are visible at the top. A sidebar on the left contains icons for various programming languages, with 'JS' (JavaScript) selected. A Windows taskbar is visible at the bottom, showing the time as 8:59 AM on 7/11/2023.

```
1 * (function(arr) {
2 *   function isPrime(num) {
3 *     if (num <= 1) {
4 *       return false;
5 *     }
6 *     for (var i = 2; i <= Math.sqrt(num); i++) {
7 *       if (num % i === 0) {
8 *         return false;
9 *       }
10 *     }
11 *     return true;
12 *   }
13 *
14 *   var primeArray = arr.filter(function(num) {
15 *     return isPrime(num);
16 *   });
17 *   console.log(primeArray);
18 * })([1, 2, 3, 4, 5, 6, 7, 8, 9, 10]);
```

Output

```
node /tmp/slWKCysxBOU.js
[ 2, 3, 5, 7 ]
```

E.Return all the palindromes in an array

Online JavaScript Compiler (Edit) +

programiz.com/javascript/online-compiler/#google_vignette

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main.js

```

1- (function(arr) {
2-   function isPalindrome(str) {
3-     var reversed = str.split('').reverse().join('');
4-     return str === reversed;
5-   }
6-
7-   var palindromeArray = arr.filter(function(str) {
8-     return isPalindrome(str);
9-   });
10-   console.log(palindromeArray);
11- })(["level", "hello", "radar", "world"]);

```

Run

Output

```

node /tmp/slWKCYSxBOU.js
[ 'level', 'radar' ]

```

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F.Return median of two sorted arrays of the same size.

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main.js

```

1- (function(arr1, arr2) {
2-   var merged = arr1.concat(arr2);
3-   merged.sort(function(a, b) {
4-     return a - b;
5-   });
6-
7-   var length = merged.length;
8-   var median;
9-
10-   if (length % 2 !== 0) {
11-     median = (merged[length / 2 - 1] + merged[length / 2]) / 2;
12-   } else {
13-     median = merged[Math.floor(length / 2)];
14-   }
15-
16-   console.log(median);
17- })([1, 2, 3, 4], [5, 6, 7, 8]);

```

Run

Output

```

node /tmp/slWKCYSxBOU.js
4.5

```

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G.Remove duplicates from an array

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main.js

```
1- (function(arr) {
2-   var uniqueArray = arr.filter(function(value, index, self) {
3-     return self.indexOf(value) === index;
4-   });
5-   console.log(uniqueArray);
6- })([1, 2, 2, 3, 4, 5, 5]);
```

Run

Output

```
node /tmp/slWKCysxBOU.js
[ 1, 2, 3, 4, 5 ]
```

Clear

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H.Rotate an array by k times

Online JavaScript Compiler (Edit) x +

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main.js

```
1- (function(arr, k) {
2-   var rotations = k % arr.length;
3-   var rotatedArray = arr.slice(rotations).concat(arr.slice(0, rotations));
4-   console.log(rotatedArray);
5- })([1, 2, 3, 4, 5], 2);
```

Run

Output

```
node /tmp/slWKCysxBOU.js
[ 3, 4, 5, 1, 2 ]
```

Clear

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2.Do the below programs in arrow functions.

A.Print odd numbers in an array

Online JavaScript Compiler (Edit) +

programiz.com/javascript/online-compiler/#google_vignette

Programiz
JavaScript Online Compiler

main.js

```
1* const printOddNumbers = (arr) => {
2*   arr.forEach((num) => {
3*     if (num % 2 !== 0) {
4*       console.log(num);
5*     }
6*   });
7* });
8
9
10 const numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
11 printOddNumbers(numbers);
```

Run

Output

```
node /tmp/slWKCysxBOU.js
1
3
5
7
9
```

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B.Convert all the strings to title caps in a string array

Online JavaScript Compiler (Edit) +

programiz.com/javascript/online-compiler/#google_vignette

Programiz
JavaScript Online Compiler

main.js

```
1* const convertToTitleCaps = (arr) => {
2*   return arr.map((str) => {
3*     return str.charAt(0).toUpperCase() + str.slice(1);
4*   });
5* };
6
7
8 const strings = ["hello", "world", "javascript"];
9 const titleCaps = convertToTitleCaps(strings);
10 console.log(titleCaps);
```

Run

Output

```
node /tmp/slWKCysxBOU.js
[ 'Hello', 'World', 'Javascript' ]
```

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C.Sum of all numbers in an array

The screenshot shows the Programiz Online JavaScript Compiler interface. The main editor contains the following JavaScript code:

```
1- const sumArray = (arr) => {  
2-   return arr.reduce((sum, num) => sum + num, 0);  
3- };  
4-  
5-  
6- const numbers = [1, 2, 3, 4, 5];  
7- const sum = sumArray(numbers);  
8- console.log(sum);
```

The output window on the right shows the result of running the code:

```
node /tmp/slWKCysxBOU.js  
15
```

The interface includes a sidebar with icons for various programming languages (JS, PHP, etc.), a top banner for Programiz, and a bottom taskbar with Windows icons and system information.

D.Return all the prime numbers in an array

The screenshot shows the Programiz Online JavaScript Compiler interface. The main editor contains the following JavaScript code:

```
1- const isPrime = (num) => {  
2-   if (num <= 1) {  
3-     return false;  
4-   }  
5-  
6-   for (let i = 2; i <= Math.sqrt(num); i++) {  
7-     if (num % i === 0) {  
8-       return false;  
9-     }  
10-  }  
11-  return true;  
12- };  
13-  
14-  
15- const getPrimeNumbers = (arr) => {  
16-   return arr.filter((num) => isPrime(num));  
17- };  
18-  
19-  
20- const numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];  
21- const primes = getPrimeNumbers(numbers);  
22- console.log(primes);
```

The output window on the right shows the result of running the code:

```
node /tmp/slWKCysxBOU.js  
[ 2, 3, 5, 7 ]
```

The interface includes a sidebar with icons for various programming languages (JS, PHP, etc.), a top banner for Programiz, and a bottom taskbar with Windows icons and system information.

E.Return all the palindromes in an array

Online JavaScript Compiler (Edit: x +)

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main.js

1 const isPalindrome = (str) => {
2 const reversed = str.split("").reverse().join("");
3 return str === reversed;
4 };
5
6 const getPalindromes = (arr) => {
7 return arr.filter((str) => isPalindrome(str));
8 };
9
10 // Usage:
11 const strings = ["hello", "level", "world", "radar"];
12 const palindromes = getPalindromes(strings);
13 console.log(palindromes);

Run

Output

node /tmp/sMKCYsxBOU.js
['level', 'radar']

JS

GO

php

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