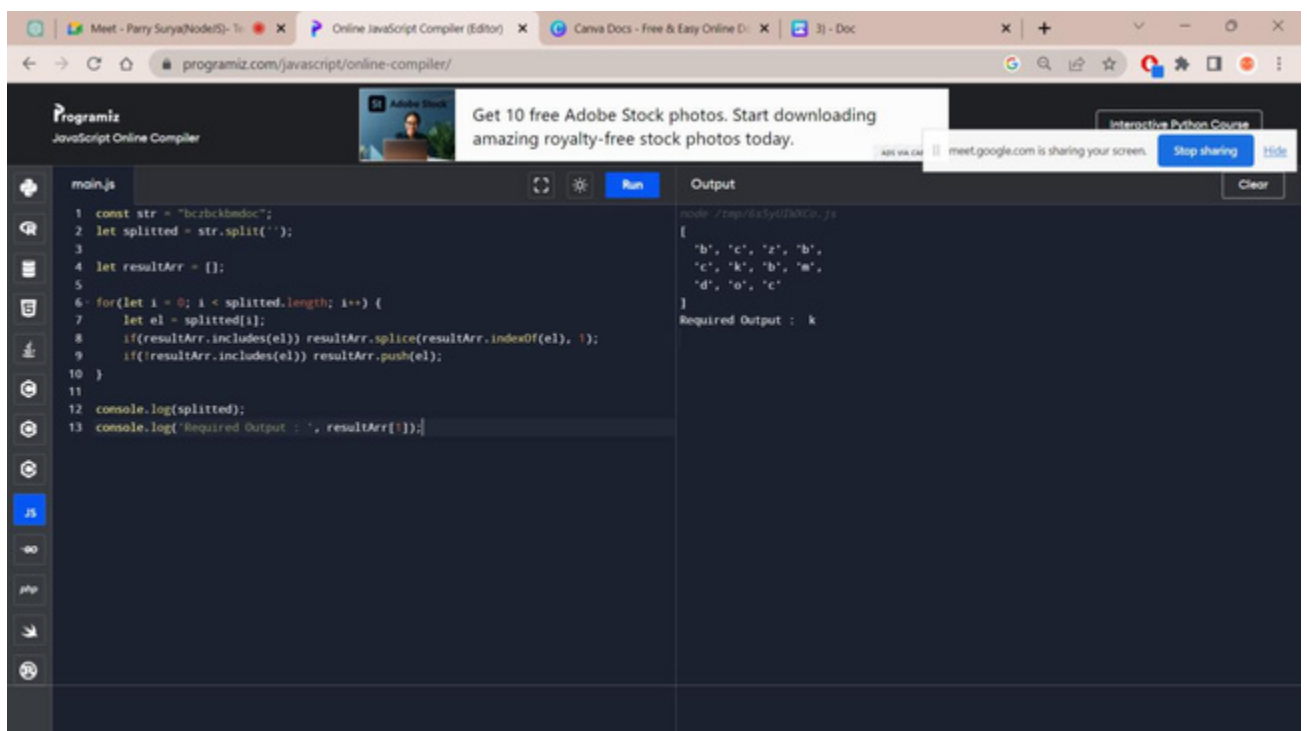


1)

Write a program that takes in a string and returns the 2nd non-repeated character in that string.

Eg: Input: "bczbckbmdoc"

Output: "k"



The screenshot shows a web browser with the URL `programiz.com/javascript/online-compiler/`. The page features a dark-themed code editor with the following JavaScript code in `main.js`:

```
1 const str = "bczbckbmdoc";
2 let splitted = str.split('');
3
4 let resultArr = [];
5
6 for(let i = 0; i < splitted.length; i++) {
7   let el = splitted[i];
8   if(resultArr.includes(el)) resultArr.splice(resultArr.indexOf(el), 1);
9   if(!resultArr.includes(el)) resultArr.push(el);
10 }
11
12 console.log(splitted);
13 console.log('Required Output : ', resultArr[1]);
```

The code is executed, and the output is displayed on the right side of the editor. The output shows the array `['b', 'c', 'z', 'b', 'c', 'k', 'b', 'm', 'd', 'o', 'c']` and the required output `k`.

Write a program that takes in a string and returns the most common character in that string.

Eg: Input: "abcabca" Output: "a"

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3) - Doc

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Interactive Python Course

main.js

```
1 const str = "abcabca";
2 let splitted = str.split('');
3 let counts = [];
4
5 //to get a set of individual letters included in the string.
6 const sett = new Set(splitted);
7 const settlength = [...sett].length;
8
9 //loop through and over the count as a state.
10 for(let i = 0; i < splitted.length; i++) {
11   let iter1 = splitted[i];
12   let count = 0;
13   for(let j = 0; j < splitted.length; j++) {
```

Output

```
new /ProgramizStock.js
The letter is A. The number of occurrences is "3".
```

```
14   var iter2 = splitted[j];
15   if(iter1 === iter2) count++;
16 }
17 counts.push([el: iter1, count]);
18 }
19
20 // to get the desired iterations containing a set of individual characters.
21 let obj = counts.splice(0, settlength);
22 //find the counts of each characters to get the maximum value.
23 const result = obj.map(el => {
24   return {Object.values(el)[0]} ;
25 })
26
27 //find the maximum value.
28 const largestValue = Math.max(...result);
29
30 //find the object with the greatest value.
31 const resultValue = obj.filter(el => {
32   return Object.values(el)[0] === largestValue;
33 });
34 //find the key and the value of the selected object.
35 const letter = Object.values(resultValue[0])[0];
36 const counter = Object.values(resultValue[0])[1];
37
```

3)

print the pattern

*

