

WEB PROGRAMMING LAB ASSIGNMENT-4

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Usn:1NT19IS053

Sec:A (A2-Batch)

JavaScript Arrow Functions Assignment:-

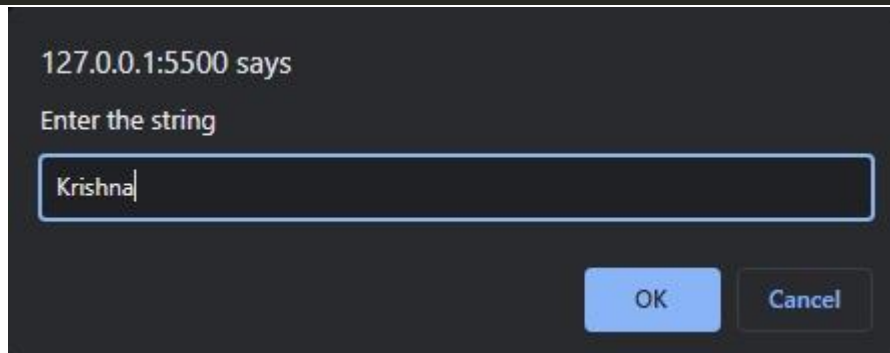
1. Write a JavaScript function that accepts a string as a parameter and count the number of vowels within the string.

Code:

```
coun=(str)=>{
  let n=str.length;
  let count=0;
  for(let i=0;i<n;i++){
    if(str[i]=='a' || str[i]=='e' || str[i]=='i' || str[i]=='o' || str[i]=='u' ||
      str[i]=='A' || str[i]=='E' || str[i]=='I' || str[i]=='O' || str[i]=='U') count++;
  }
  return count;
}

let str=prompt("Enter the string");
let res=coun(str);
document.write(`The count of the vowels in the string is: ${res}`);
```

Output:



The count of the vowels in the string is: 2

2. Write an arrow function named **dashTwixt2Evens** that accepts a number and inserts dashes (-) between two even numbers.

Code:

```
dashTwixt2Evens=(num)=>{  
  let str="";  
  for(let i=0;i<num.length-1;i++){  
    let ele=parseInt(num[i]);  
    str=str+num[i];  
    if(ele%2==0){  
      let ele1=parseInt(num[i+1]);  
      if(ele1%2==0){  
        str=str+'-';  
      }  
    }  
  }  
  str=str+num[num.length-1];  
  return str;  
}  
  
let num=prompt("Enter the number");  
let res=dashTwixt2Evens(num);  
document.write(`The number is ${res}`);
```

Output:

127.0.0.1:5500 says

Enter the number

OK Cancel

The number is 2-254-6-8

3. Write an arrow function named **sumEvens** that accepts an array of numbers and returns the sum of the even numbers in the array.

Code:

```
sumEven=(arr)=>[
  let sum=0;
  for(let i=0;i<arr.length;i++){
    if(arr[i]%2==0){
      sum=sum+arr[i];
    }
  }
  return sum;
]

let n=prompt("Enter the length of the Array");
let arr=[];
for(let i=0;i<n;i++){
  arr[i]=parseInt(prompt("Enter the element"));
}

let res=sumEven(arr);
document.write(`The sum of the even numbers in the array is: ${res}`);
```

Output:

The image shows two browser prompts. The first prompt, titled '127.0.0.1:5500 says', asks 'Enter the length of the Array' and has the input field containing the number '5'. The second prompt, also titled '127.0.0.1:5500 says', asks 'Enter the element' and has the input field containing the number '1'. Both prompts have 'OK' and 'Cancel' buttons at the bottom right.

127.0.0.1:5500 says

Enter the element

OK

Cancel

127.0.0.1:5500 says

Enter the element

OK

Cancel

127.0.0.1:5500 says

Enter the element

OK

Cancel

127.0.0.1:5500 says

Enter the element

OK

Cancel

The sum of the even numbers in the array is: 6

4. Rewrite the following three functions as arrow functions.

Make sure to assign them to a **const** identifier.

```
function createFullName(firstName, lastName) {
```

```
  return firstName + " " + lastName;
}
```

```
function doubleNumber(number) {
```

```
  return number * 2;
}
```

```
function getEvenNumbers(array) {
```

```
  let evenNumbers = [];
```

```
  for (let i of array) {
```

```
    if (i % 2 === 0) {
```

```
      evenNumbers.push(i);
```

```
    }
```

```
  }
```

```
  return evenNumbers;
```

```
}
```

Code:

```
const createFullName = (firstName, lastName) => {
  return firstName + " " + lastName;
}

const doubleNumber = (number) => {
  return number * 2;
}

const getEvenNumbers = (array) => {
  let evenNumbers = [];
  for (let i of array) {
    if (i % 2 === 0) {
      evenNumbers.push(i);
    }
  }
  return evenNumbers;
}

let fname = prompt("Enter the first Name");
```

```

let fname=prompt("Enter the first Name");
let lname=prompt("Enter the last Name");
let res=createFullName(fname,lname);

document.write(`The full name is ${res}`);
document.write("<br>");
let num=prompt("Enter the number");
let res1=doubleNumber(num);
document.write(`The Double number is ${res1}`);

document.write("<br>");
let n=prompt("Enter the length of the Array");
let arr=[];
for(let i=0;i<n;i++){
    arr[i]=parseInt(prompt("Enter the element"));
}
let res2=[];
res2=getEvenNumbers(arr);
document.write(`The Even number array is ${res2}`);

```

Ln 8, Col 3 Spaces: 2 UTF-8 LF JavaScript Port: 5500 kite: ready Prettier

Output:

127.0.0.1:5500 says

Enter the first Name

Krishna

OK

Cancel

127.0.0.1:5500 says

Enter the last Name

Sai

OK

Cancel

127.0.0.1:5500 says

Enter the number

12

OK

Cancel

127.0.0.1:5500 says

Enter the length of the Array

OK Cancel

The full name is krishna sai

The Double number is 24

The Even number array is 10,20,30,40,50

5. Apply JavaScript Arrow function to reverse a given Number

Given Number = 12243;

Expected Output : 34221

Code:

```
reverse=(num)=>{  
  let res;  
  let sum=0;  
  while(num>0){  
    res=parseInt(num%10);  
    sum=res+sum*10;  
    num=parseInt(num/10);  
  }  
  return sum;  
}  
  
let num=prompt("Enter the number");  
  
let res=reverse(num);  
document.write(` The reverse of the given Number is: ${res}`);
```

Output:

127.0.0.1:5500 says

Enter the number

OK

Cancel

The reverse of the given Number is: 54321