

Java Script Task-1

1) Implement a JavaScript function that calculates the factorial of a number recursively.

CODE:

```
function factorial(n) {  
    if (n == 0) {  
        return 1;  
    } else {  
        return n * factorial(n - 1);  
    }  
}  
  
console.log(factorial(6));
```

OUTPUT:720

2) Write a function in JavaScript that takes an array of numbers and returns the sum of all positive numbers in the array.

CODE:

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

```
// Example usage:
let numbers = [1, -2, 3, 4, -5, 6];
console.log(sumPositiveNumbers(numbers));
```

OUTPUT:14

3) Create an object in JavaScript representing a car with properties for make, model, and year. Write a function that changes the car's year property.

CODE:

```
// Create the car object
let myCar = {
  make: 'Toyota',
  model: 'Camry',
  year: 2015
};

// Function to change the car's year property
function changeYear(car, newYear) {
  car.year = newYear;
}

// Change the year property to 2024
changeYear(myCar, 2024);

// Log the updated car object
console.log(myCar);
```

OUTPUT:

```
{ make: 'Toyota', model: 'Camry', year: 2024 }
```