1)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
    function checkEvenOrOdd(number) {
  if (number % 2 === 0) {
    return "Even";
  } else {
    return "Odd";
  }
}

console.log(checkEvenOrOdd(4));  // Output: Even

    </script>
  </body>
</html>
```

3)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
    function reverseString(str) {
  let reversed = '';
  for (let i = str.length - 1; i >= 0; i--) {
    reversed += str[i];
  }
  return reversed;
}

console.log(reverseString("welcome"));  // Output: emoclew

    </script>
  </body>
</html>
```

4)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
  function calculateCircleArea(radius) {
  const pi = Math.PI;
  let area = pi * Math.pow(radius, 2);
  return area;
}

function calculateCircleCircumference(radius) {
  const pi = Math.PI;
  let circumference = 2 * pi * radius;
  return circumference;
}

const radius = 4;
const circleArea = calculateCircleArea(radius);
console.log("Area:", circleArea);
const circleCircumference = calculateCircleCircumference(radius);
console.log("Circumference:", circleCircumference);


    </script>
  </body>
</html>
```

6)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
 function checkPositiveNegative(num1, num2) {
  if ((num1 > 0 && num2 < 0) || (num1 < 0 && num2 > 0)) {
    return true;
  } else {
    return false;
  }
}

console.log(checkPositiveNegative(5, -3));   // Output: true
console.log(checkPositiveNegative(4, 9));    // Output: false


    </script>
  </body>
</html>
```

7)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
function checkMultipleOf5Or8(number) {
  if (number % 5 === 0 || number % 8 === 0) {
    return true;
  } else {
    return false;
  }
}

console.log(checkMultipleOf5Or8(10));   // Output: true (multiple of 5)
console.log(checkMultipleOf5Or8(16));   // Output: true (multiple of 8)
console.log(checkMultipleOf5Or8(18));   // Output: false (not a multiple of 5 or
8)

    </script>
  </body>
</html>
```

8)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
function findLargestNumber(num1, num2, num3) {
  let largest = num1;

  if (num2 > largest) {
    largest = num2;
  }

  if (num3 > largest) {
    largest = num3;
  }

  return largest;
}

console.log(findLargestNumber(5, 9, 3));   // Output: 9

    </script>
  </body>
</html>
```

9)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
function computeSumFrom1to10() {
  let sum = 0;
  for (let i = 1; i <= 10; i++) {
    sum += i;
  }
  return sum;
}

const sum = computeSumFrom1to10();
console.log("Sum:", sum);  // Output: Sum: 55

    </script>
  </body>
</html>
```

10)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
function displayTriangle(rows) {
  for (let i = 1; i <= rows; i++) {
    let pattern = '';

    for (let j = 1; j <= i; j++) {
      pattern += '*';
    }

    console.log(pattern);
  }
}

const Rows = 5;
displayTriangle(Rows);

    </script>
  </body>
</html>
```

11)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
function checkNumber(num) {
  if (num > 0) {
    console.log("The number is positive.");
  } else if (num < 0) {
    console.log("The number is negative.");
  } else {
    console.log("The number is zero.");
  }
}

checkNumber(5);    // Output: The number is positive.
checkNumber(-3);   // Output: The number is negative.
checkNumber(0);    // Output: The number is zero.

    </script>
  </body>
</html>
```

13)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
   function printSum(a, b) {
  const sum = a + b;
  console.log(`The sum of ${a} and ${b} is ${sum}.`);
}

const number1 = 5;
const number2 = 10;
printSum(number1, number2);  //output:The sum of 5 and 10 is 15.

    </script>
  </body>
</html>
```

14)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>


  </head>
  <body>
    <script>
   function calculateFactorial(number) {
  let factorial = 1;

  for (let i = 2; i <= number; i++) {
    factorial *= i;
  }

  console.log(`The factorial of ${number} is: ${factorial}.`);
}

const inputNumber = 5;
calculateFactorial(inputNumber);  //output: The factorial of 5 is: 120.

    </script>
  </body>
</html>
```

15)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
  </head>
  <body>
    <script>
  function calculate(operator, num1, num2) {
  let result;
  switch (operator) {
    case '+':
      result = num1 + num2;
      break;
    case '-':
      result = num1 - num2;
      break;
    case '*':
      result = num1 * num2;
      break;
    case '/':
        result = num1 / num2;
      break;
    default:
      console.log("Invalid operator.");
      return;
  }
  console.log(`Result: ${num1} ${operator} ${num2} = ${result}`);
}
calculate('+', 5, 3);
calculate('-', 10, 4);
calculate('*', 6, 2);
calculate('/', 12, 3);
/* output
Result: 5 + 3 = 8
Result: 10 - 4 = 6
Result: 6 * 2 = 12
Result: 12 / 3 = 4
*/

    </script>
  </body>
</html>
```