

### 3. Arrow Functions:

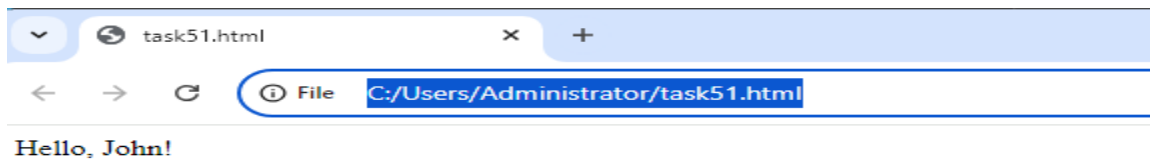
#### Task 51

Declare a simple arrow function named `greet` that takes one parameter `name` and returns the string "Hello, name!". Test your function with various names.

#### CODE:

```
<html>
  <body>
    <script>
      let greet=(name)=>{
        document.writeln("Hello, "+name+"!");
      }
      greet("John")
    </script>
  </body>
</html>
```

#### OUTPUT:



#### Task 52

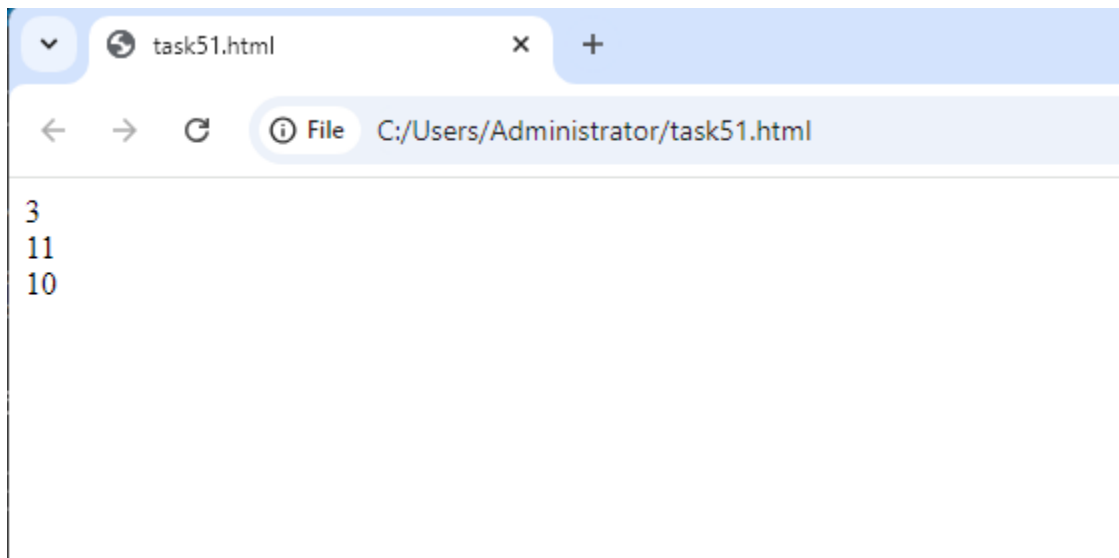
Write an arrow function named `add` that takes two parameters and returns their sum. Validate your function with several pairs of numbers.

#### CODE:

```
<html>
  <body>
    <script>
      let add=(n1,n2)=>{
        return n1+n2;
      }
    </script>
  </body>
</html>
```

```
        document.writeln(add(1,2)+"<br>");
        document.writeln(add(9,2)+"<br>");
        document.writeln(add(10,0)+"<br>");
    </script>
</body>
</html>
```

## OUTPUT:



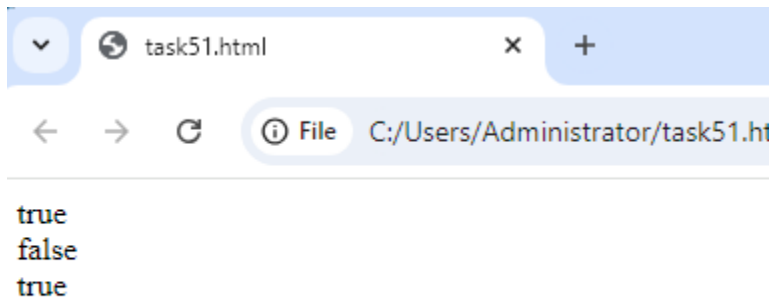
## Task 53

Declare an arrow function named `isEven` that checks if a number is even. If the number is even, it should return `true`; otherwise, `false`. Remember that if the arrow function body has a single statement, you can omit the curly braces.

## CODE:

```
<html>
  <body>
    <script>
      let isEven = (num) => num % 2 === 0;
      document.writeln(isEven(14)+"<br>");
      document.writeln(isEven(19)+"<br>");
      document.writeln(isEven(10)+"<br>");
    </script>
  </body>
</html>
```

## OUTPUT:



## Task 54

Implement an arrow function named `maxValue` that takes two numbers as parameters and returns the larger number. Here, you'll need to use curly braces for the function body and the return statement.

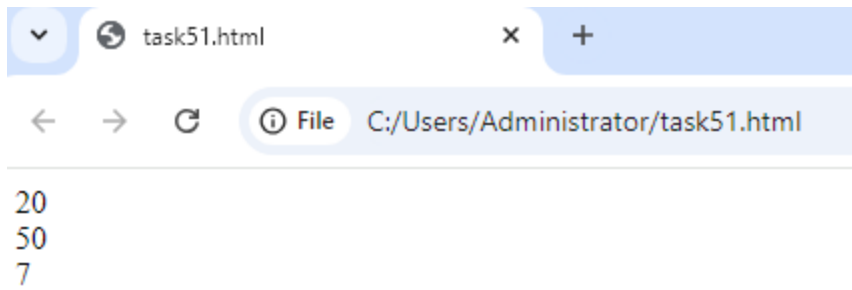
## CODE:

```
<html>
  <body>
    <script>
      let maxValue = (a, b) => {
        return a > b ? a : b;
      };

      document.writeln(maxValue(10, 20)+"<br>");
      document.writeln(maxValue(50, 30)+"<br>");
      document.writeln(maxValue(7, 7));

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

## OUTPUT:



## Task 55

Examine the behavior of the `this` keyword inside an arrow function vs a traditional function. Create an object named `myObject` with a property value set to 10 and two methods: `multiplyTraditional` using a traditional function and `multiplyArrow` using an arrow function. Both methods should attempt to multiply the value property by a number passed as a parameter. Check the value of `this` inside both methods.

### CODE:

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

const myObject = {
  value: 10,
  multiplyTraditional: function (num) {
    console.log("Traditional function 'this':", this);
    return this.value * num;
  },
  multiplyArrow: (num) => {
    console.log("Arrow function 'this':", this);
    return this.value * num;
  }
};

console.log(myObject.multiplyTraditional(2));

console.log(myObject.multiplyArrow(2));

    </script>
  </body>
```

```
</html>
```

## OUTPUT:

