

JavaScript Variables - Practice Code

Problem Statement 1: Redeclaration of Variable

Write a simple JavaScript program that displays the redeclared variable.

Redeclaring a Variable Using var

Hello JS

Problem Statement 2: Arrays

Write a JavaScript program with an array, and display the array, display only the element of an array, add a new element to an array, and display the modified array.

JavaScript const

Declaring a constant array does NOT make the elements unchangeable:

Apple,Banana,Orange

Apricot,Banana,Orange,Mango

Problem Statement 3: Redeclaring Let

Write a simple JavaScript program that tries to redeclare the let variable.

Redeclaring a Variable Using let

Hello

Problem Statement 4: Const

Write a simple JavaScript program that modifies the value of an array element and adds a new element that is declared as const and displays the array before and after modification.

JavaScript const

Iphone,Redmi,Oppo

Iphone,Oneplus,Oppo,Motto

Solution:

Problem Statement 1:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width">
  <title>Var_Declaration</title>
</head>
<body>
  <h2>Redeclaring a Variable Using var</h2>
<script>
var  x = 'Hello';
// Here x is Hello
{
  var x = 'Hello JS';
  // Here x is Hello JS
}
// Here x is Hello JS
document.write(x);
</script>
</body>
</html>
```

Problem Statement 2:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width">
  <title>replit</title>
</head>
<body>
  <h2>JavaScript const</h2>
<p>Declaring a constant array does NOT make the elements unchangeable:</p>
<p id="demo"></p>
  <p id="demo1"></p>
<script>
```

```
// Create an Array:
const fruits = ["Apple", "Banana", "Orange"];
// Display the Array:
document.getElementById("demo").innerHTML = fruits;
// Change an element:
fruits[0] = "Apricot";

// Add an element:
fruits.push("Mango");

// Display the Array:
document.getElementById("demo1").innerHTML = fruits;
</script>
</body>
</html>
```

Problem Statement 3:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width">
  <title>Let Declaration</title>
</head>
<body>
  <h2>Redeclaring a Variable Using let</h2>
  <p id="demo"></p>
  <script>
let  x = 'Hello';
// Here x is Hello
{
  let x = 'Hello JS';
  // Here x is Hello JS
}
// Here x is Hello
document.getElementById("demo").innerHTML = x;
</script>
</body>
</html>
```

Problem Statement 4:

```
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width">
  <title>Const Declaration</title>
</head>
<body>
  <h2>JavaScript const</h2>

  <p id="demo"></p>
  <p id="demo1"></p>
  <script>
    // Create an Array:
    const mobile = ["Iphone", "Redmi", "Oppo"];
    // Display the Array:
    document.getElementById("demo").innerHTML = mobile;
    // Change an element:
    mobile[1] = "Oneplus";

    // Add an element:
    mobile.push("Motto");

    // Display the Array:
    document.getElementById("demo1").innerHTML = mobile;
  </script>
</body>
</html>
```