Practical No 3

Aim : Function In JavaScript

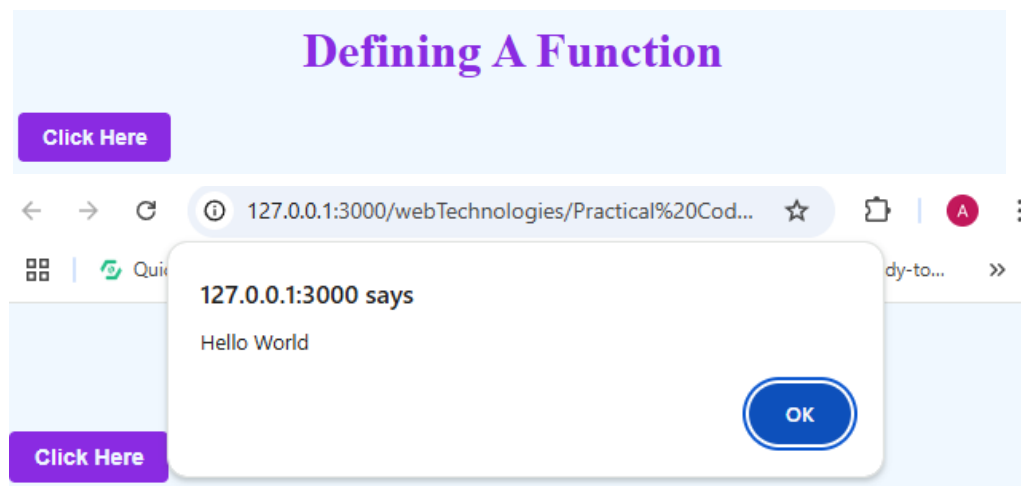### A. Defining And Invoking A Function

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Defining A Function</title>
    <style>
        body {
            background: aliceblue;
            color: blueviolet;
        }
        h1 {
            text-align: center;
        }
        .button {
            margin: 0 auto;
            padding: 8px 16px;
            font: bold 14px sans-serif;
            color: aliceblue;
            background: blueviolet;
            border: none;
            border-radius: 4px;
        }
    </style>
</head>
<body>
    <h1>Defining A Function</h1>
    <input type="button" value="Click Here" class="button" onclick="showMsg()">
    <script>
        function showMsg() {
            alert("Hello World");
        }
    </script>
</body>
</html>
```

B. Defining Function Argument

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Function Argument</title>
    <style>
        body {
            background: aliceblue;
            color: blueviolet;
        }

        h1 {
            text-align: center;
        }

        .button {
            margin: 0 auto;
            padding: 8px 16px;
            font: bold 14px sans-serif;
            color: aliceblue;
            background: blueviolet;
            border: none;
            border-radius: 4px;
        }
    </style>
</head>

<body>
    <h1>JavaScript Function Argument</h1>
    <input type="button" value="Click Here" class="button" onclick="showCube(7)">
    <script>
        function showCube(num) {
            alert(num*num*num);        }
    </script>
</body>

</html>
```
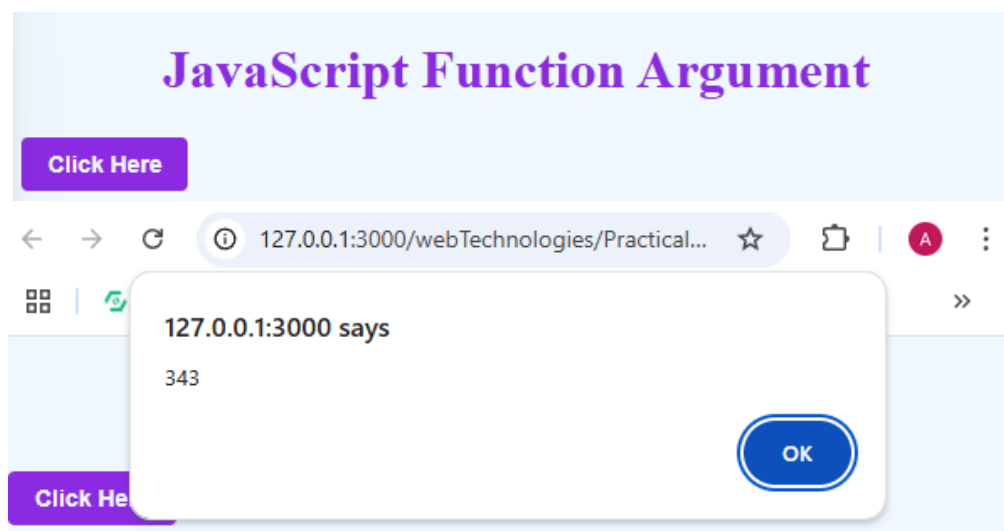
C. Defining A Return Statement

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Return Statement</title>
    <style>
      body {
        background: aliceblue;
        color: blueviolet;
      }
      h1 {
        text-align: center;
      }
      .button {
        margin: 0 auto;
        padding: 8px 16px;
        font: bold 14px sans-serif;
        color: aliceblue;
        background: blueviolet;
        border: none;
        border-radius: 4px;
      }
    </style>
</head>
<body>
    <h1>JavaScript Return Statement</h1>
    <p>This Code Does A Calcution And Returns The Result</p>
    <script>
      // JavaScript Return Statement
      // Return Statement Is Used To Exit From A Function
      function add(a, b) {
        return a + b;
      }
      document.write(add(2, 3));
      document.write("<br>");
      document.write(add(4, 5));
      document.write("<br>");
      document.write(add(6, 7));
      document.write("<br>");
      document.write(add(8, 9));
    </script>
</body>
</html>
```


JavaScript Return Statement

This Code Does A Calcution And Returns The Result

5
9
13
17

D. Calling Function With Timer
1. setTimeout

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Set Timeout</title>
    <style>
      body {
        background: aliceblue;
        color: blueviolet;
      }
      h1 {
        text-align: center;
      }
      .button {
        margin: 0 auto;
        padding: 8px 16px;
        font: bold 14px sans-serif;
        color: aliceblue;
        background: blueviolet;
        border: none;
        border-radius: 4px;
      }
    </style>
</head>
<body>
    <h1>Set Timeout</h1>
    <button class="button" onclick="myFunction()">Click Me</button>
    <script>
      function myFunction() {
        setTimeout(function() { alert("Hello World") }, 2000);
      }
    </script>
</body>
</html>
```

2. setInterval

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Set Interval</title>
    <style>
        body {
            background: aliceblue;
            color: blueviolet;
        }
        h1 {
            text-align: center;
        }
        .button {
            margin: 0 auto;
            padding: 8px 16px;
            font: bold 14px sans-serif;
            color: aliceblue;
            background: blueviolet;
            border: none;
            border-radius: 4px;
        }
    </style>
</head>
<body>
    <h1>Set Interval</h1>
    <button class="button" onclick="myFunction()">Click Me</button>
    <script>
        let count = 0;
        function myFunction() {
            setInterval(function () {
                alert("Hello World " + count)
                count++;
            }, 3000);
        }
    </script>
</body>
</html>
```