

MIT Art Design and Technology University
MIT School of Computing, Pune
Department of Computer Science and Engineering
Third Year B. Tech Academic Year 2022-2023. (SEM-I)
Subject: Web Technology Laboratory

Assignment 3

Assignment Title: 1. Write a JavaScript code to take inputs from user and display that inputs in following pattern
“Hello Welcome To the World of JavaScript”.

2. Write a JavaScript code to perform arithmetic operation by taking values from users (Add, Sub, Mul, Div)

- a. 4 Buttons ,
- b. Dropdown

Aim: Create JS scripts for taking user input to give response to user or perform arithmetic operations and

Objectives:

- 1. To understand how JS scripts can be used to let user interact with user
- 2. Understand relationship between JavaScript and HTML

Outcomes:

Upon Completion of the assignment the students will be able to

- 1. Create interactable web pages using JS
- 2. Understand relationship between HTML and JS

Name: Rudradev Arya
Branch and Division: CSE TY-CC-B
Roll Number: 2213825
Enrollment Number: MITU21BTCS0489
Course Name: Web Technology Lab

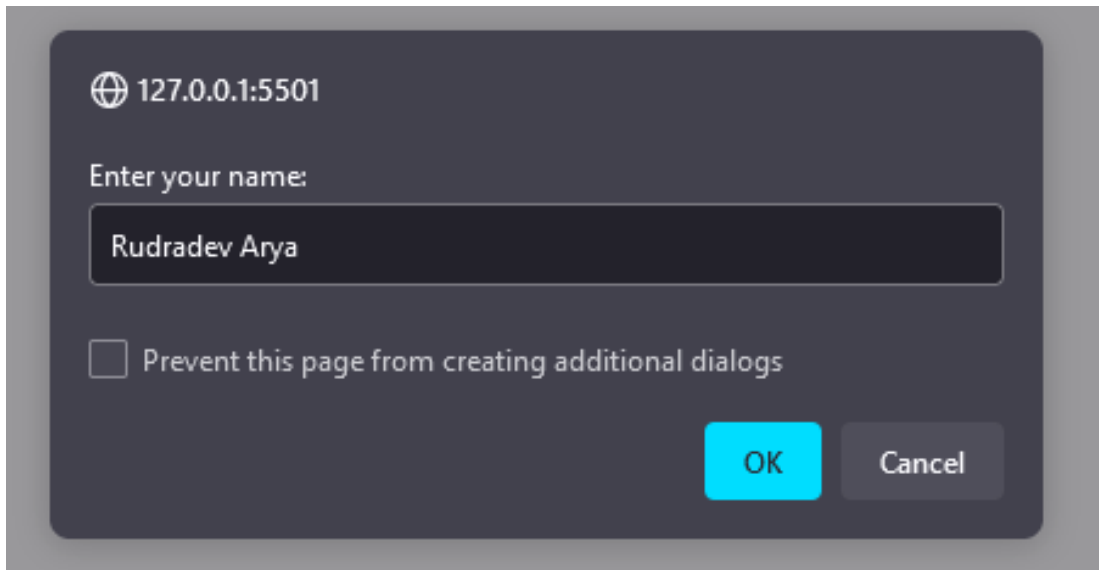
JS Script in HTML :

1. Write a JavaScript code to take inputs from user and display that inputs in following pattern
“Hello Welcome To the World of JavaScript”.

```
<!DOCTYPE html>
<html>
<head>
    <title>Prompt</title>
</head>
<body>
    <script>
        let name = prompt("Enter your name: ");
        alert(`Hello ${name}... Welcome To World of
JavaScript`);
    </script>

    <!-- <script src=""></script> -->
</body>
</html>
```

Output :



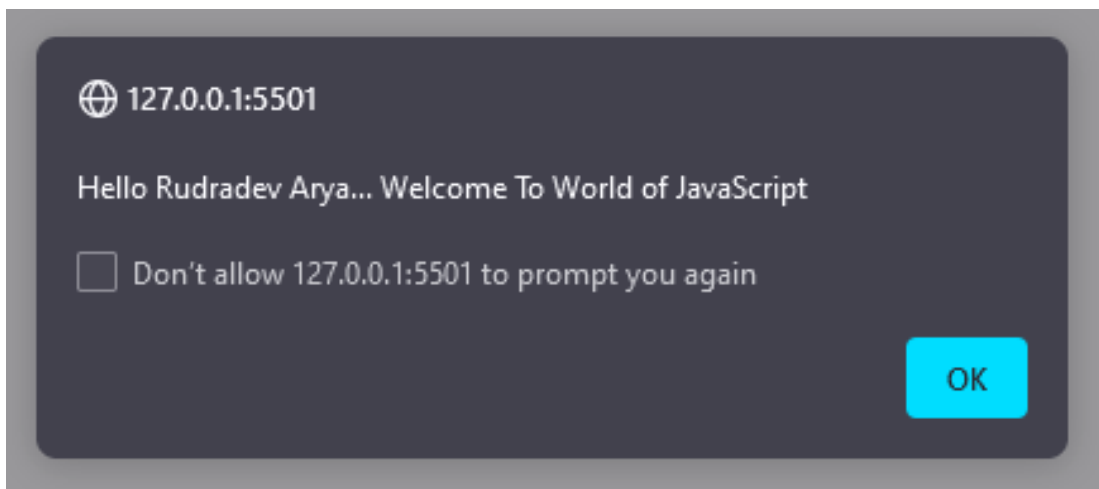
127.0.0.1:5501

Enter your name:

Rudradev Arya

☐ Prevent this page from creating additional dialogs

OK Cancel



127.0.0.1:5501

Hello Rudradev Arya... Welcome To World of JavaScript

☐ Don't allow 127.0.0.1:5501 to prompt you again

OK

2. Write a JavaScript code to perform arithmetic operation by taking values from users (Add,Sub, Mul,Div)
- a. 4 Buttons ,

```
<!DOCTYPE html>
<html>
<head>
    <title>JS Calci</title>
</head>
<body>
    <input type="number" id="num1"
placeholder="Enter the first number">
    <input type="number" id="num2"
placeholder="Enter the second number">
    <br><br>
    <button onclick="calculate('Add') ">Add</button>
    <button
onclick="calculate('Sub') ">Subtract</button>
    <button
onclick="calculate('Mul') ">Multiply</button>
    <button
onclick="calculate('Div') ">Divide</button>
    <br><br>
    <p>Result: <span id="result"></span></p>

    <script>
        function calculate(operation) {
            let num1 =
parseFloat(document.getElementById("num1").value);
```

```
        let num2 =  
parseFloat(document.getElementById("num2").value);  
        let result;  
        switch (operation) {  
            case "Add":  
                result = num1 + num2;  
                break;  
            case "Sub":  
                result = num1 - num2;  
                break;  
            case "Mul":  
                result = num1 * num2;  
                break;  
            case "Div":  
                result = num1 / num2;  
                break;  
        }  
  
document.getElementById("result").innerHTML = result;  
    }  
    </script>  
</body>  
</html>
```

OUTPUT

Add Subtract Multiply Divide

Result: 55

b. Dropdown

```
<!DOCTYPE html>
<html>
<head>
  <title>JS Calci</title>
</head>
<body>
  <input type="number" id="num1" placeholder="Enter
the first number">
  <input type="number" id="num2" placeholder="Enter
the second number">
  <br><br>
  <select id="operation">
    <option value="Add">Add</option>
    <option value="Sub">Subtract</option>
    <option value="Mul">Multiply</option>
```

```
        <option value="Div">Divide</option>
    </select>
    <button onclick="calculate()">Calculate</button>
    <br><br>
    <p>Result: <span id="result"></span></p>

    <script>
        function calculate() {
            let num1 =
parseFloat(document.getElementById("num1").value);
            let num2 =
parseFloat(document.getElementById("num2").value);
            let operation =
document.getElementById("operation").value;
            let result;
            switch (operation) {
                case "Add":
                    result = num1 + num2;
                    break;
                case "Sub":
                    result = num1 - num2;
                    break;
                case "Mul":
                    result = num1 * num2;
                    break;
                case "Div":
                    result = num1 / num2;
                    break;
            }
        }
    </script>

```

```
        document.getElementById("result").innerHTML
= result;
    }
</script>
</body>
</html>
```

OUTPUT :

<input type="text" value="22"/>	<input type="text" value="11"/>
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<input type="button" value="Subtract ▼"/>	<input type="button" value="Calculate"/>
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Result: 11

Explanation :

1. The first code takes input from the user using the `prompt()` method and displays it in the following pattern: “Hello ... Welcome To the World of JavaScript” using the `alert()` method.
2. The second code performs arithmetic operations (Add, Sub, Mul, Div) by taking values from users using the `prompt()` method and a `switch` statement to perform the selected operation. The result is displayed using the `alert()` method.
3. The third code creates an HTML page with two input fields for the user to enter the numbers and four buttons for the arithmetic operations. When the user clicks on one of the buttons, the corresponding operation is performed on the numbers entered by the user, and the result is displayed on the page using the `innerHTML` property.
4. The fourth code creates an HTML page with two input fields for the user to enter the numbers, a dropdown for selecting the arithmetic operation, and a button to perform the calculation. When the user clicks on the “Calculate” button, the selected operation is performed on the numbers entered by the user, and the result is displayed on the page using the `innerHTML` property.

Some of the functions and methods used in these codes are:

- `prompt()`: This method displays a dialog box that prompts the user for input.
- `alert()`: This method displays an alert box with a specified message.
- `parseFloat()`: This function parses a string argument and returns a floating-point number.
- `switch` statement: This statement evaluates an expression and executes code blocks based on the value of the expression.
- `innerHTML` property: This property sets or returns the HTML content (inner HTML) of an element.