Web Programming
Lab – 8
Java Script

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Slot: L11+L12+L31+L32
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Course Code: BCSE203E
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Question 1:

1. Create a basic calculator that takes two numbers from the user and performs basic mathematical operations (addition, subtraction, multiplication, division and mod) using prompt and alert.

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>23BCE1728</title>
</head>
<body>
    <h2>Exercise 8.1</h2>
    <p>Prompt and Alert</p>
    <script>
        let a=prompt("Enter first number: ",0);
        let b=prompt("Enter second number: ",0);
        let op=prompt("Enter operator: ",'+');
        let ans=eval(a+op+b);
        alert("Answer: "+ans);
    </script>
</body>
</html>
```
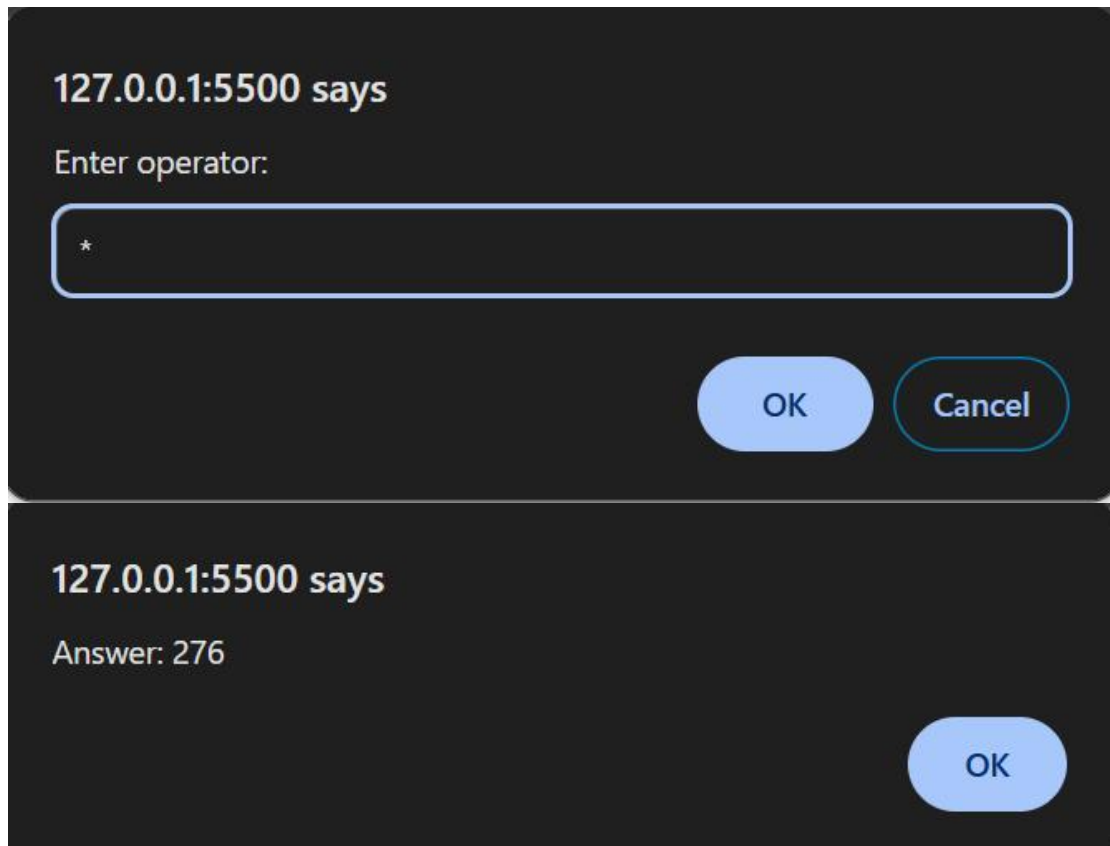
Output:

127.0.0.1:5500 says

Enter first number:

23

OK   Cancel

127.0.0.1:5500 says

Enter second number:

12

OK   Cancel

127.0.0.1:5500 says

Enter operator:

```
*
```

OK   Cancel

127.0.0.1:5500 says

Answer: 276

OK

Question 2:

2. Write a JavaScript program to use `prompt()` to ask for the user's age and `alert()` to confirm whether the user is eligible to drive.

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>23BCE1728</title>
</head>
<body>
    <h2>Exercise 8.2</h2>
    <p>Prompt and Alert</p>
    <script>
        let age=prompt("Enter your age: ",0);
        if(age>=18){
            alert("You are eligible to drive.");
        }
        else{
            alert("You are not eligible to drive.");
        }
    </script>
</body>
</html>
```

Output:

127.0.0.1:5500 says

Enter your age:

23

OK   Cancel

127.0.0.1:5500 says

You are eligible to drive.

OK

Question 3:

3. Write a JavaScript program to use `confirm()` to ask the user for confirmation whether he is a student while entering his registration number.

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>23BCE1728</title>
</head>
<body>
    <H2>Exercise 8.3</H2>
    <form action="">
        <label for="age">Enter your age: </label>
        <input type="text" name="age">
        <br>
        <br>
        <button onclick="check()">Submit</button>
    </form>
    <script>
        function check(){
            confirm("Are you a student?");
        }
    </script>
</body>
</html>
```
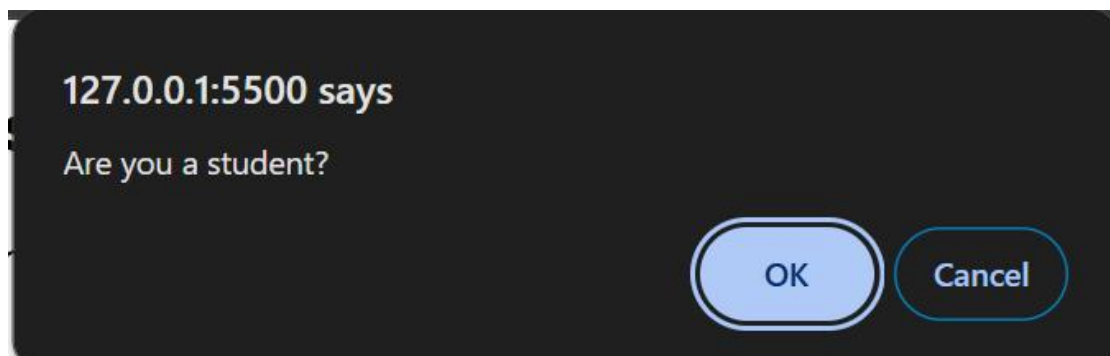
Output:

Exercise 8.3

Enter your age: 20

Submit

127.0.0.1:5500 says

Are you a student?

OK   Cancel

Question 4:

4. A General Service company hired you to calculate the labour cost and total charge for the services rendered to their client based on the formula given below:

        Rate per hour : Rs.45/-
        Labour cost : Rate per hour * hours work
        Total Charge : Labour cost + Cost of Materials.

Write a JavaScript program (Internal) using suitable pop-up boxes to read the necessary inputs and display the output.

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>23BCE1728</title>
</head>
<body>
    <h2>Exercise 8.4</h2>
    <p>
        <b>Prompt and Alert</b>
        <br>
        Rate per hour : Rs.45/-
        <br>
        Labour cost : Rate per hour * hours work
        <br>
        Total Charge : Labour cost + Cost of Materials
    </p>
    <script>
        let h=parseInt(prompt("Enter hours worked: ",0));
        let c=parseInt(prompt("Enter cost of materials: ",0));
        let total=(45*h+c);
        alert("Total Charge: "+total);
    </script>
```

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

Output:

Question 5:

5. Write a JavaScript program to accept reg.no and name.

   Display your registration number as shown below by applying inline style using document.write.

   one

   Display your name as shown below by applying inline style using innerHTML.

   Your Name

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>23BCE1728</title>
</head>
<body>
    <H2>Exercise 8.5</H2>
    <form name="f1">
        <label>Reg No:</label>
        <input type="text" name="i1">
        <br>
        <label>Name:</label>
        <input type="text" name="i2">
        <br>
        <button onclick="acceptInput()">Submit</button>
    </form>
    <script>
        function acceptInput(){
            let reg=document.f1.i1.value;
            let name=document.f1.i2.value;
            document.write('<div style="box-sizing:border-box;margin:10px;border: 4px solid
red;width:200px;">'+reg+"</div>");

            let element=document.createElement('div');
            element.style.cssText="box-sizing:border-box;margin:10px;color: red;border: 2px solid
black;width:200px";
            element.innerHTML=name;
            document.body.appendChild(element);
        }
    </script>
</body>
</html>
```

Output:

Exercise 8.5

Reg No: 23BCE1728

Name: Sushen

Submit

23BCE1728

Sushen

Question 6:

6. A circus has an entry ticket booth. Visitors come to the booth, and order tickets for adults and children. The booth attendant collects the entry fee, and prints out the tickets. Write a JavaScript program (External) to display the total amount in a given text box on clicking 'Total' button.

TICKET BOOTH

Adults (₹10 each)

Children (₹5 each)

Total

Code:
HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>23BCE1728</title>
    <style>
        *{
            padding: 0px;
            margin: 0px;
        }
        .container{
            border: 2px solid black;
            margin: 2px;
```

```css
        padding: 5px;
        width: 250px;
    }
    .heading{
        text-align: center;
        font-weight: bold;
    }
    .input-div{
        margin: 20px 0px 20px 10px;
    }
    .output-value{
        border: 1px solid black;
        height: 30px;
        width: 80px;
        display: inline-block;
        border-radius: 2px;
    }
    .output-div{
        width: 200px;
        margin: 20px 0px 20px 10px;
        display: flex;
        align-items: center;
        justify-content: space-around;
    }
    button{
        width: 100px;
        height: 30px;
    }
    </style>
</head>
<body>
    <h2>Exercise 8.6</h2>
    <div class="container">
        <div class="heading">TICKET BOOTH</div>
        <div class="input-div">
            <p>Adults (&#8377;10 each)</p>
            <input type="text" id="i1">
        </div>
        <div class="input-div">
            <p>Children (&#8377;5 each)</p>
            <input type="text" id="i2">
        </div>
        <div class="output-div">
            <button onclick="compute()">Total</button>
            <div class="output-value"></div>
        </div>
    </div>
    <script src="script6.js"></script>
</body>
</html>
```

JS

```javascript
function compute(){
    let e1=document.querySelector('#i1');
    let a=parseInt(e1.value);
    let e2=document.querySelector('#i2');
    let c=parseInt(e2.value);
    let total=(a*10)+(c*5);
    let e3=document.querySelector('.output-value');
    e3.textContent=total;
}
```

Output:

Exercise 8.6

TICKET BOOTH

Adults (₹10 each)

5

Children (₹5 each)

2

Total	60