

Practical – 2

AIM:

- 1) Write a JavaScript code to create Basic calculator using PromptBox

Source Code:**HTML Code:**

```
<div align="center">
  <h2>Calculator</h2>
  <p>Start Calculating.</p>
  <button onclick="myFunction()">Go</button>
  <p id="demo"></p></div>
```

JavaScript code:

```
function myFunction() {
  var x,y,z,oper;
  x=prompt("first number");
  y=prompt("second number");
  oper=prompt("Type an operator");
  if(oper==""){
    z=Number(x)+Number(y);
  }
  else if(oper==NULL){
    z="Error"
  }
  else if(x!=NULL){
    z="Error"
  }
  else if(y!=NULL){
```

```
        z="Error" }
    else if(oper=="/"){
        z=Number(x)/Number(y);
    }
    else if(oper=="*"){
        z=Number(x)*Number(y);
    }
    else if(oper=="-"){
        z=Number(x)-Number(y);
    }
    return z; }
document.getElementById("demo").innerHTML =myFunction();
```

OUTPUT:

```
Enter operator ( either +, -, * or / ): +
Enter first number: 5
Enter second number: 6
5 + 6 = 11
```

2) Write a JavaScript code to create Basic calculator using Input Box**Source Code:**

```
<!-- Create a simple Program to build the Calculator in JavaScript using with HTML and CSS
web languages. -->
<!DOCTYPE html>
<html lang = "en">
<head>
<title> JavaScript Calculator </title>
<style>
h1 {
text-align: center;
padding: 23px;
background-color: orange;
color: yellow;
}
```

```
#clear{
width: 270px;
border: 3px solid navy;
border-radius: 3px;
padding: 20px;
background-color: lightskyblue;
}

.formstyle
{
width: 300px;
height: 530px;
margin: auto;
border: 3px solid lightcoral;
border-radius: 5px;
padding: 20px;
}

input
{
width: 20px;
background-color: lavender;
color: black;
border: 3px solid gray;
border-radius: 5px;
padding: 26px;
margin: 5px;
font-size: 15px;
}

#calc{
width: 250px;
border: 5px solid black;
border-radius: 3px;
padding: 20px;
margin: auto;
}

</style>
</head>
```

```

<body>
<h1> Calculator Program in JavaScript </h1>
<div class= "formstyle">
<form name = "form1">

<!-- This input box shows the button pressed by the user in calculator. -->
<input id = "calc" type="text" name = "answer"> <br> <br>
<!-- Display the calculator button on the screen. -->
<!-- onclick() function display the number prsses by the user. -->
<input type = "button" value = "1" onclick = "form1.answer.value += '1' ">
<input type = "button" value = "2" onclick = "form1.answer.value += '2' ">
<input type = "button" value = "3" onclick = "form1.answer.value += '3' ">
<input type = "button" value = "+" onclick = "form1.answer.value += '+' ">
<br> <br>

<input type = "button" value = "4" onclick = "form1.answer.value += '4' ">
<input type = "button" value = "5" onclick = "form1.answer.value += '5' ">
<input type = "button" value = "6" onclick = "form1.answer.value += '6' ">
<input type = "button" value = "-" onclick = "form1.answer.value += '-' ">
<br> <br>

<input type = "button" value = "7" onclick = "form1.answer.value += '7' ">
<input type = "button" value = "8" onclick = "form1.answer.value += '8' ">
<input type = "button" value = "9" onclick = "form1.answer.value += '9' ">
<input type = "button" value = "*" onclick = "form1.answer.value += '*' ">
<br> <br>

<input type = "button" value = "/" onclick = "form1.answer.value += '/' ">
<input type = "button" value = "0" onclick = "form1.answer.value += '0' ">
<input type = "button" value = "." onclick = "form1.answer.value += '.' ">
<!-- When we click on the '=' button, the onclick() shows the sum results on the calculator
screen. -->
<input type = "button" value = "=" onclick = "form1.answer.value = eval(form1.answer.value)
">
<br>

<!-- Display the Cancel button and erase all data entered by the user. -->
<input type = "button" value = "Clear All" onclick = "form1.answer.value = '' " id= "clear" >
<br>

</form>
</div>
</body>

```

```
</html>
```

Output:

C:/Users/ABHI%20JOSHI/Downloads/html%20form/index.html

Calculator Program in JavaScript

3) Do temperature Conversion using the input box and display the result on the Web Page. (Celsius to Fahrenheit)

HTML file:

```
<p>
  <label>Fahrenheit</label>
  <input id="inputFahrenheit" type="number" placeholder="Fahrenheit"
    oninput="temperatureConverter(this.value)"
    onchange="temperatureConverter(this.value)">
</p>
<p>Celsius: <span id="outputCelsius"></span></p>
```

JavaScript Code:

```
function temperatureConverter(valNum) {  
    valNum = parseFloat(valNum);  
    document.getElementById("outputCelsius").innerHTML = (valNum-32) / 1.8;  
}
```

Output:

Fahrenheit

Celsius: 13.333333333333332

Fahrenheit

Celsius: -50.55555555555556

Conclusion:

JavaScript is one language which is use for every application. JavaScript is generally use for backend and as well as fronted. Threw JavaScript we can make same program like other programming language.

Course Outcome:

JavaScript is one of the best scripting languages so we can make all type of application.