

Practical – 2

AIM : Create Basic Calculator using prompt.

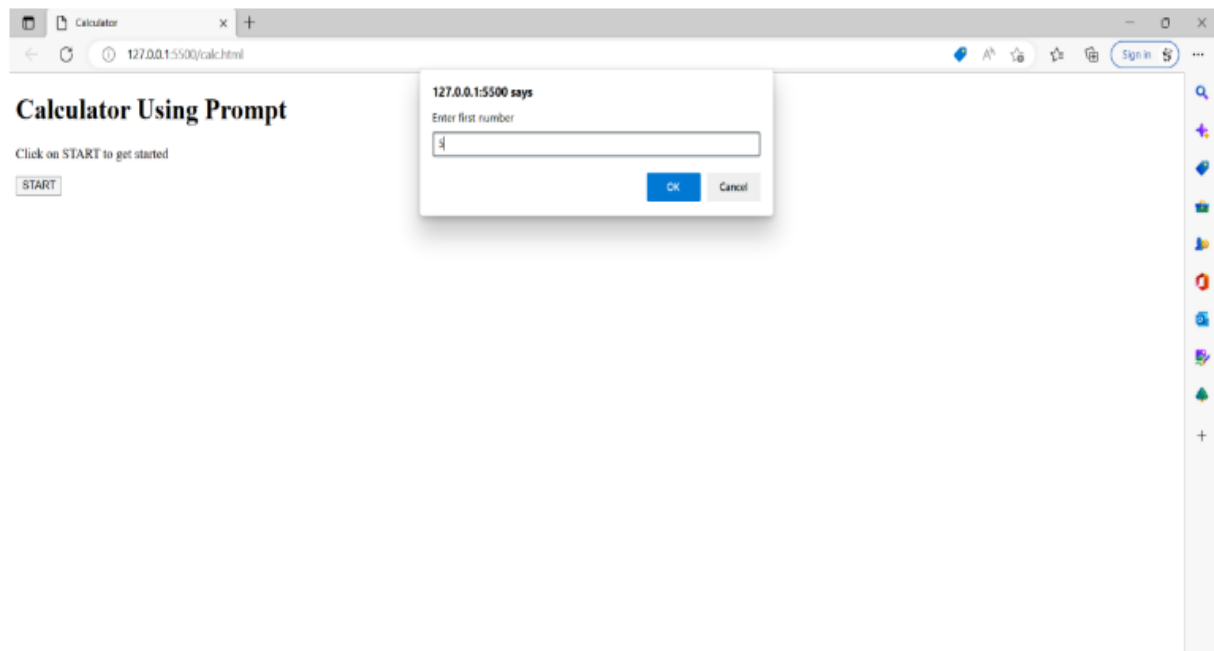
HTML Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Calculator</title>
</head>
<body>
<h1>Calculator Using Prompt</h1>
<p>Click on START to get started</p>
<input type="button" id="num" value="START" onclick="calc()">
<script src="./calc.js"></script>
</body>
</html>
```

Javascript Source Code:

```
"use strict";
function calc(){
let n1 = prompt("Enter first number");
let n2 = prompt("Enter second number");
let op = prompt("Enter the operator");
let result;
if(op=="+"){
result = Number(n1)+Number(n2);
}
else if(op=="-"){
result = Number(n1)-Number(n2);
}
```

```
else if (op=="x") {  
    result = Number(n1)*Number(n2);  
}  
else if (op=="/") {  
    result = Number(n1)/Number(n2);  
}  
alert("Result = " + result);  
}
```

Output:**Conclusion:**

The Javascript Window prompt() method is used to display a dialog box with an optional message prompting the user to input some text. It is often used if the user wants to input a value before entering a page.

AIM : Create Basic Calculator using inputbox.

HTML Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Calculator</title>
</head>
<body>
<h1>Basic Calculator</h1>
<div class="container">
<input type="number" id="num1" placeholder="Number"><br><br>
<input type="number" id="num2" placeholder="Number"><br><br>
<button id="add"> + </button>
<button id="sub"> - </button>
<button id="mul"> x </button>
<button id="div"> / </button>
<br><br>
<input type="number" id="result">
</div>
<script src="./calculator.js"></script>
</body>
</html>
```

Javascript Source Code:

```
"use script";
let n1 = document.getElementById("num1");
let n2 = document.getElementById("num2");
let ans = document.getElementById("result");
document.getElementById("add").addEventListener("click",
function () {
ans.value = parseInt(n1.value) + parseInt(n2.value);
```

```
});  
document.getElementById("sub").addEventListener("click",  
function () {  
ans.value = parseInt(n1.value) - parseInt(n2.value);  
});  
document.getElementById("mul").addEventListener("click",  
function () {  
ans.value = parseInt(n1.value) * parseInt(n2.value);  
});  
document.getElementById("div").addEventListener("click",  
function () {  
ans.value = parseInt(n1.value) / parseInt(n2.value);  
});
```

Output:

Basic Calculator

The image shows a simple web-based calculator interface. It consists of two input fields at the top, one containing the number '5' and the other containing '6'. Below these is a row of four buttons representing arithmetic operations: addition (+), subtraction (-), multiplication (x), and division (/). At the bottom, there is a larger input field that displays the result '11'.

Conclusion:

A function in JavaScript is similar to a procedure—a set of statements that performs a task or calculates a value. Here, different functions are called according to the arithmetic operation to be performed while clicking on the button.

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

HTML Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Celsius to Fahrenheit</title>
</head>
<body>
<h1>Celsius to Fahrenheit Converter</h1>
<input type="text" id="temp" placeholder="Celsius">
<input type="button" value="submit" onclick="convertTemp()">
<br><br>
<input type="text" placeholder="Fahrenheit" id="temp1">
<script src="./tempConvert.js"></script>
</body>
</html>
```

Javascript Source code:

```
'use strict';
function convertTemp() {
let t = document.getElementById("temp").value;
t = parseFloat(t);
let a = ((t*9)/5)+32;
document.getElementById("temp1").value = a;
}
```

Output:

Celsius to Fahrenheit Converter

Conclusion:

A function in javascript is used to perform some specific task. Here the function is called which converts temperature from celsius to fahrenheit and is displayed.