

Practical – 2

1. AIM: Create Basic Calculator using prompt

Source Code:

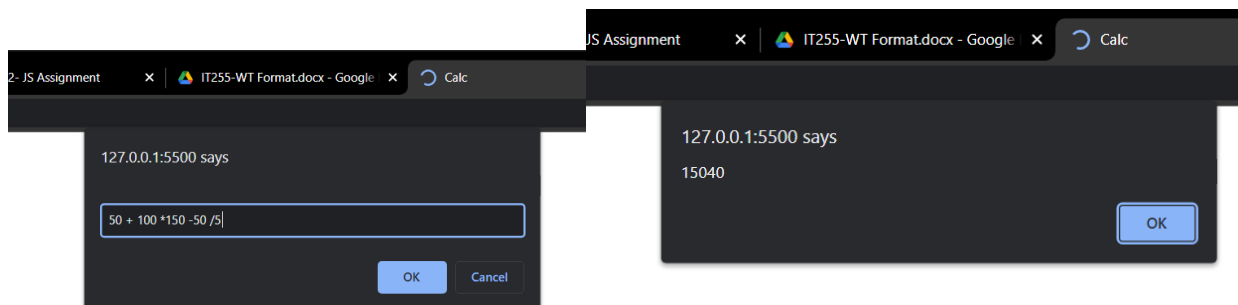
```
<!DOCTYPE html>
<html lang="en">

<head>
  <title>Calc</title>
</head>

<body>
  <script>
    let a = prompt()
    console.log(eval(a))
    alert(eval(a))
  </script>
</body>

</html>
```

Output:



Conclusion: From this program I have learned the basics of Javascript and eval function.

2. AIM: Create Basic Calculator using inputbox

Source Code:**Html Code**

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

<head>
  <title>Calc</title>
</head>

<body>

  <input type="number" placeholder="vlaue1" id=v1>
  <input type="number" placeholder="vlaue1" id=v2>
  <input type="button" value="+" onclick="f1('+')">
  <input type="button" value="-" onclick="f1('-')">
  <input type="button" value="*" onclick="f1('*')">
  <input type="button" value="/" onclick="f1('/')">
  <ul id="ans">

  </ul>
  <script src="calc.js"></script>
</body>

</html>
```

Js code

```
function f1(x) {
  var val1 = document.getElementById("v1");
  var val2 = document.getElementById("v2");
  var ans;
  switch (x) {
    case '+':
      ans = parseInt(val1.value) + parseInt(val2.value)
      break;
    case '-':
      ans = parseInt(val1.value) - parseInt(val2.value)
      break;
```

```
    case '*':
        ans = parseInt(val1.value) * parseInt(val2.value)
        break;
    case '/':
        ans = parseInt(val1.value) / parseInt(val2.value)
        break;
}
let l1 = document.createElement("li");
let t = `${val1.value} ${x} ${val2.value} = ${ans}`;
let text = document.createTextNode(t);
l1.appendChild(text);
document.getElementById("ans").appendChild(l1);
}
```

Output:

50	17	+	-	*	/
----	----	---	---	---	---

- $5 + 15 = 20$
- $5 - 15 = -10$
- $5 * 15 = 75$
- $5 / 15 = 0.3333333333333333$
- $50 + 17 = 67$
- $50 - 17 = 33$
- $50 * 17 = 850$
- $50 / 17 = 2.9411764705882355$

Conclusion: From this program I have learned the basics of Javascript and basic function of Dom.

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

Source Code:

Html Code

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

<head>
  <title>Document</title>
</head>

<body>
  <p> Enter tempreature in Celsius</p>
  <input type="text" id="temp_input">
  <input type="button" value="convert" onclick="converter()">
  <ul id="id_text">

    </ul>
  <script src="./temp.js"></script>
</body>

</html>
```

Js code

```
function converter() {
  let obj = document.getElementById("temp_input")
  let temp = obj.value;
  if (isNaN(temp)) {
    obj.value = "";
    alert("Invalid Input")
  }
  let f;
  f = (temp * 1.8) + 32;
  let ll = document.createElement("li");
  let t = `${temp} in farhenite is ${f}`
  let text = document.createTextNode(t);
```

```
l1.appendChild(text);  
document.getElementById("id_text").appendChild(l1);  
}
```

Output:

Enter temprature in Celsius

- 0 in farhenite is 32
- 550 in farhenite is 1022
- 55 in farhenite is 131
- 5 in farhenite is 41
- -40 in farhenite is -40
- 32 in farhenite is 89.6
- 33 in farhenite is 91.4
- 37 in farhenite is 98.60000000000001
- 37 in farhenite is 98.60000000000001

Conclusion: From this program I have learned the basics of javascript and basic function of Dom.

Course Outcome: Student should able to understand the tools and technologies to design & develop static and dynamic webpages/apps.

Student should able to select appropriate hosting environment