Practical – 2

AIM: Create Basic Calculator using prompt

Source Code:

(HTML CODE)

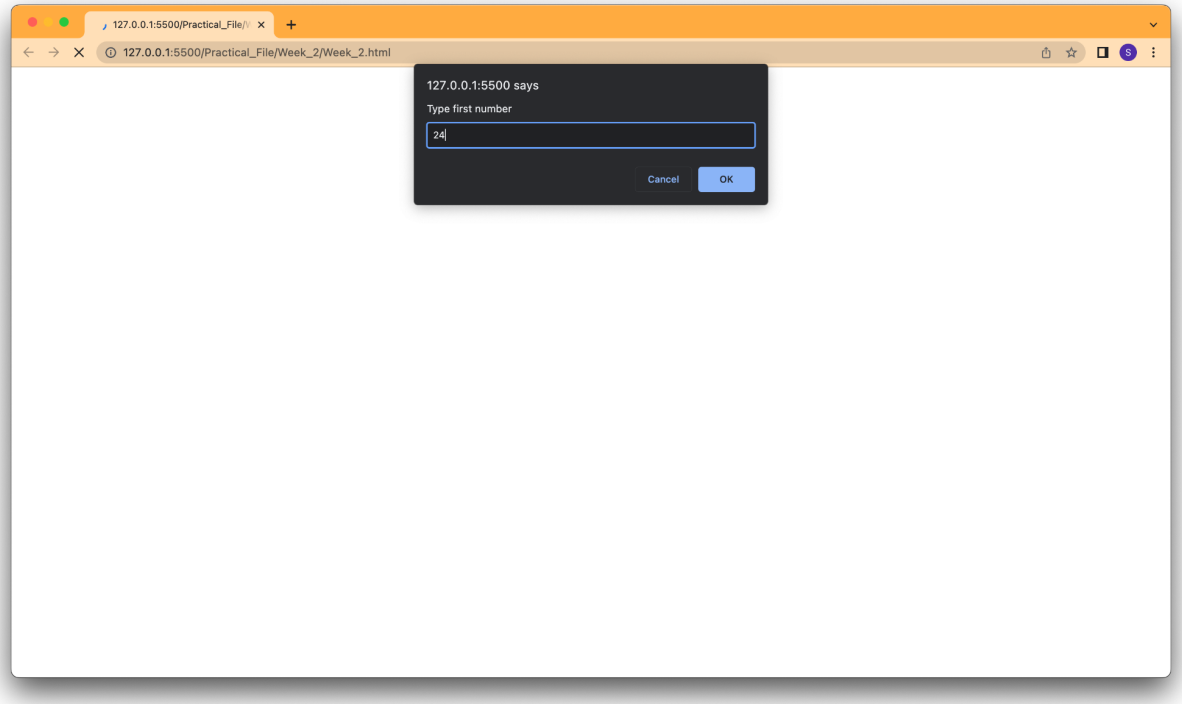
```
<!DOCTYPE html>
<html>
<head>

 <script src="calc2.js"></script>

</head>

<body>

 <div align="center"><p>Click the button and start calculating.</p>

 <button onclick="myFunction()">Go</button>

 <p id="demo">
</p>
</div>
</body>
</html>
```

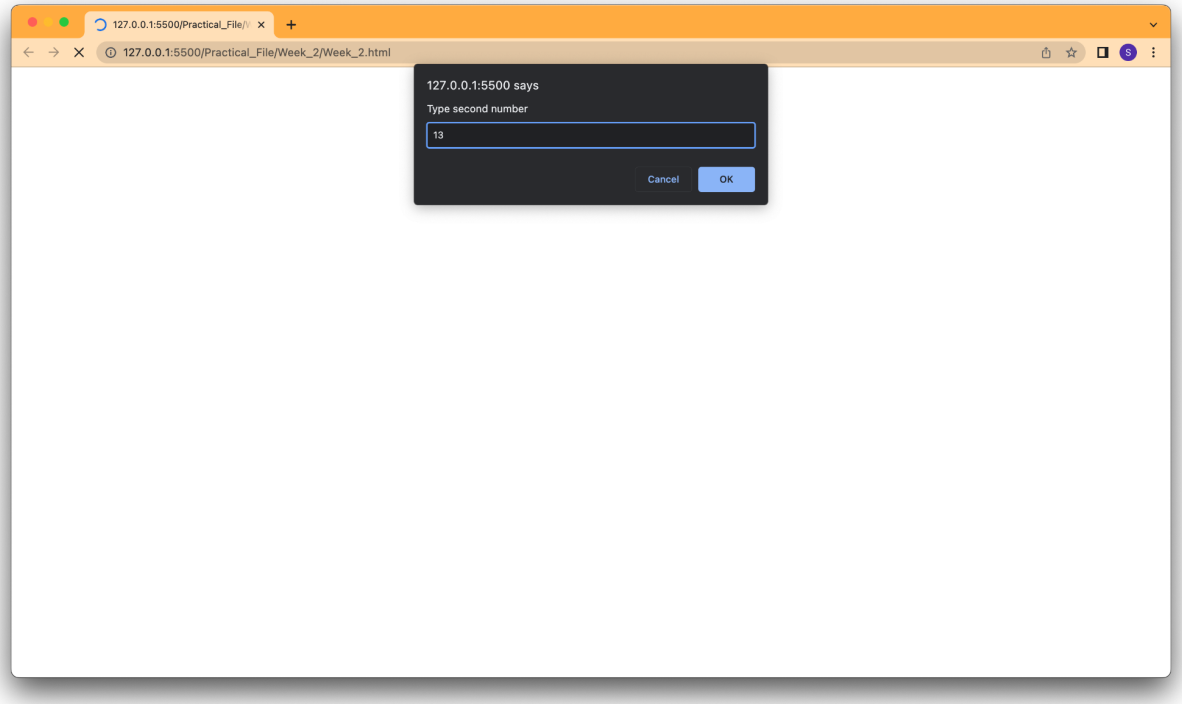
(JS CODE)

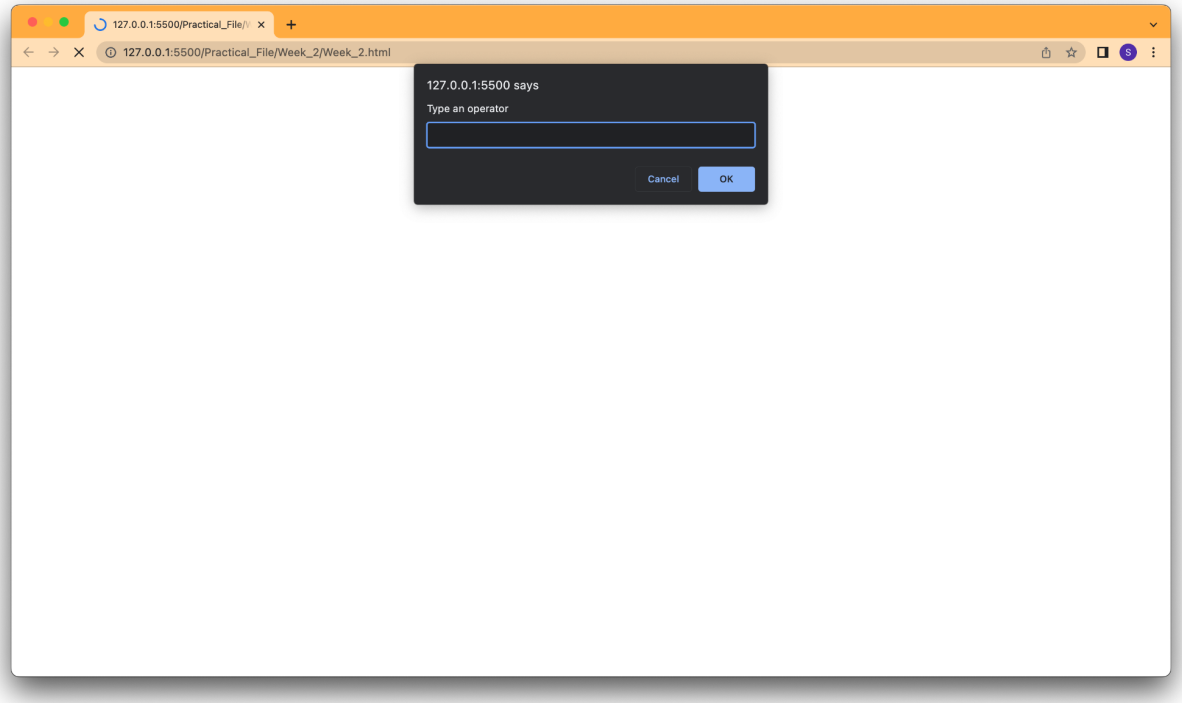
```
function myFunction()

{
 var x,y,z,oper;
 x=prompt("Type first number");
 y=prompt("Type second number");
 oper=prompt("Type an operator");

 if(oper=="+"){
```

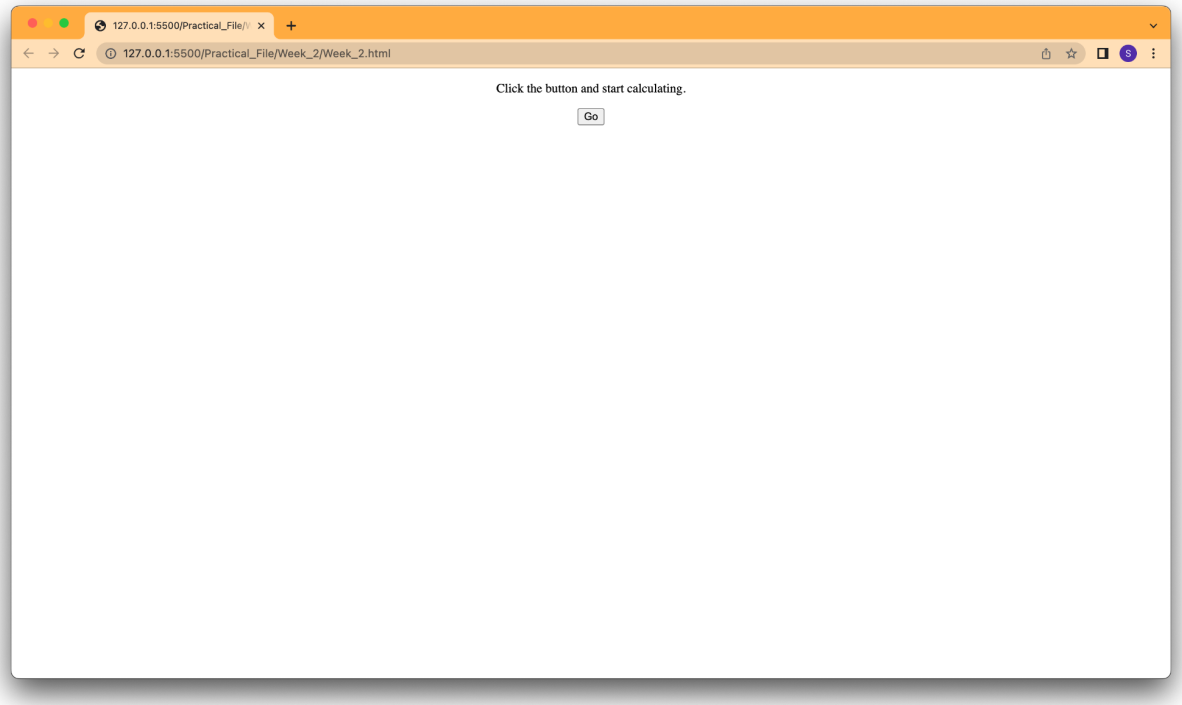
```
z=Number(x)+Number(y);
}

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:


127.0.0.1:5500/Practical_File/
127.0.0.1:5500/Practical_File/Week_2/Week_2.html
127.0.0.1:5500 says
Type first number
24
Cancel
OK


127.0.0.1:5500/Practical_File/
127.0.0.1:5500/Practical_File/Week_2/Week_2.html
127.0.0.1:5500 says
Type second number
13
Cancel
OK


127.0.0.1:5500/Practical_File/
127.0.0.1:5500/Practical_File/Week_2/Week_2.html
127.0.0.1:5500 says
Type an operator
Cancel
OK


127.0.0.1:5500/Practical_File/
127.0.0.1:5500/Practical_File/Week_2/Week_2.html
Click the button and start calculating.
Go

AIM: Create Basic Calculator using inputbox. 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>

<head>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width">
 <title>Calculator</title>
 <link href="calc.css" rel="stylesheet" type="text/css" />
 <link href="utils.css" rel="stylesheet" type="text/css" />
</head>

<body>
 <h1 class="text-center">Welcome to Calculate me!</h1>
<div class="container flex flex-col items-center mx-auto m-w-20">
<div class="row">
 <input class="input" type="text"/>
 </div>
 <div class="row">
 <button class="button">C</button>
 <button class="button">%</button>
 <button class="button">M+</button>
 <button class="button">M-</button>
 </div>
 <div class="row">
 <button class="button">7</button>
 <button class="button">8</button>
 <button class="button">9</button>
 <button class="button">*</button>
 </div>
 <div class="row">
 <button class="button">4</button>
 <button class="button">5</button>
```

```
<button class="button">6</button>
<button class="button">/</button>
</div>
<div class="row">
<button class="button">1</button>
<button class="button">2</button>
<button class="button">3</button>
<button class="button">+</button>
</div>
<div class="row">
<button class="button">0</button>
<button class="button">.</button>
<button class="button">=</button>
<button class="button">-</button>
</div>
</div>
<script src="calc.js"></script>

</body>

</html>
```

CSS CODE

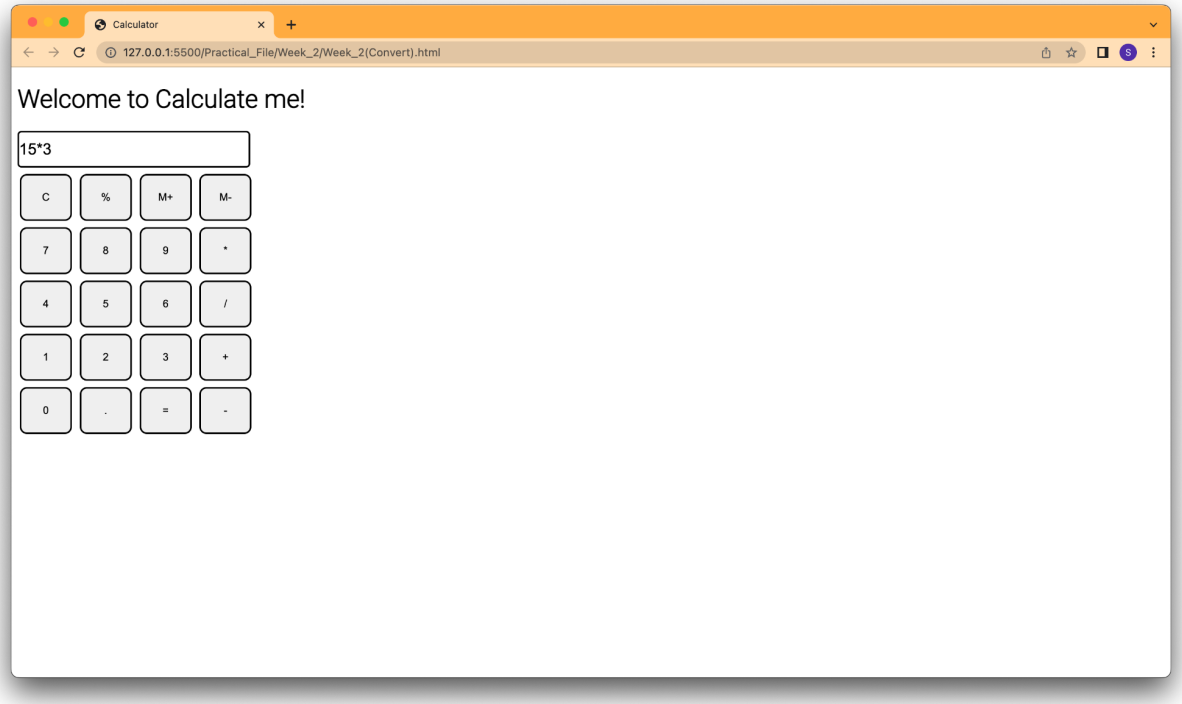
```
@import
url('https://fonts.googleapis.com/css2?family=Roboto:wght@300&family=Ubuntu:wght@300&
display=swap');
html, body {
 height: 100%;
 width: 100%;
 font-family: 'Roboto', sans-serif;
}

.button{
 width: 66px;
 padding: 20px;
 margin: 0 3px;
```

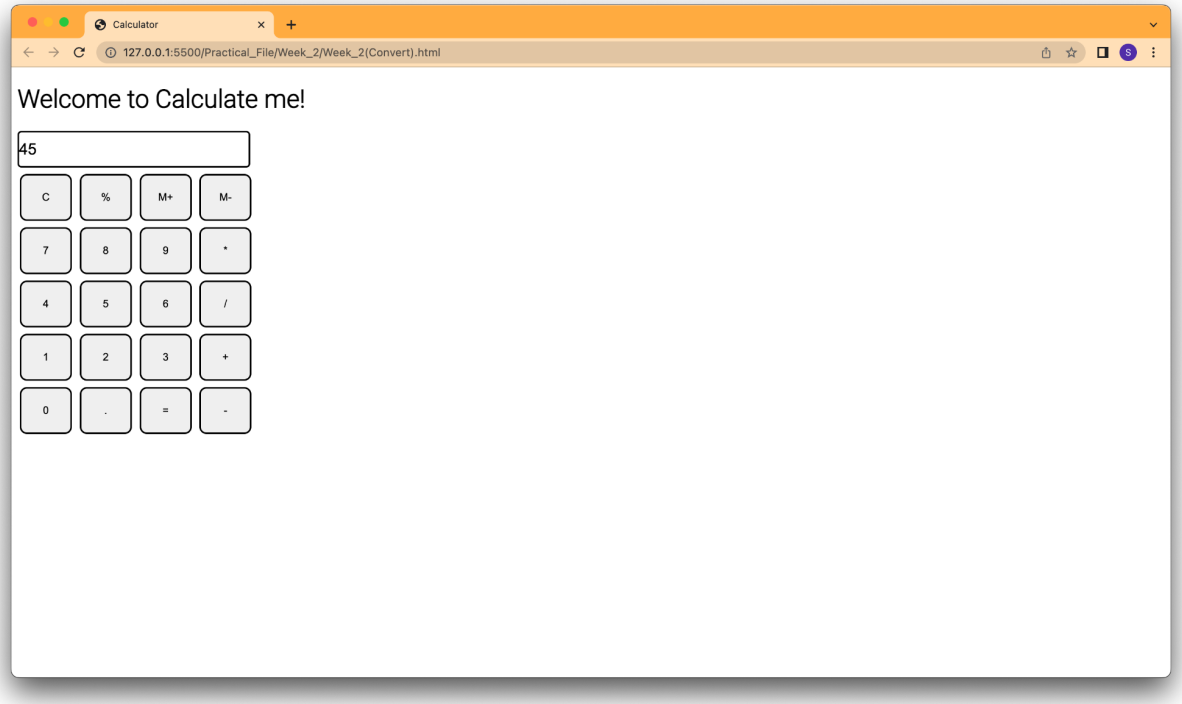
```
 border: 2px solid black;
 border-radius: 9px;
 cursor: pointer;
 }

.row{
 margin: 8px 0;
 }
.row input{
 width: 291px;
  font-size: 20px;
 margin: 0;
 padding: 10px 0px;
 border: 2px solid black;
 border-radius: 5px;
 }
```

JS CODE

```
let string = "";
let buttons = document.querySelectorAll('.button');
Array.from(buttons).forEach((button)=>{
 button.addEventListener('click', (e)=>{
 if(e.target.innerHTML == '='){
 string = eval(string);

document.querySelector('input').value = string;
 }
 else if(e.target.innerHTML == 'C'){
 string = ""
 document.querySelector('input').value = string;
 }
 else{
 console.log(e.target)
 string = string + e.target.innerHTML;
 document.querySelector('input').value = string;
 }
 })
 })
```

Output:


Calculator
127.0.0.1:5500/Practical_File/Week_2/Week_2(Convert).html
Welcome to Calculate me!
15*3
C
%
M+
M-
7
8
9
*
4
5
6
/
1
2
3
+
0
.
=
-

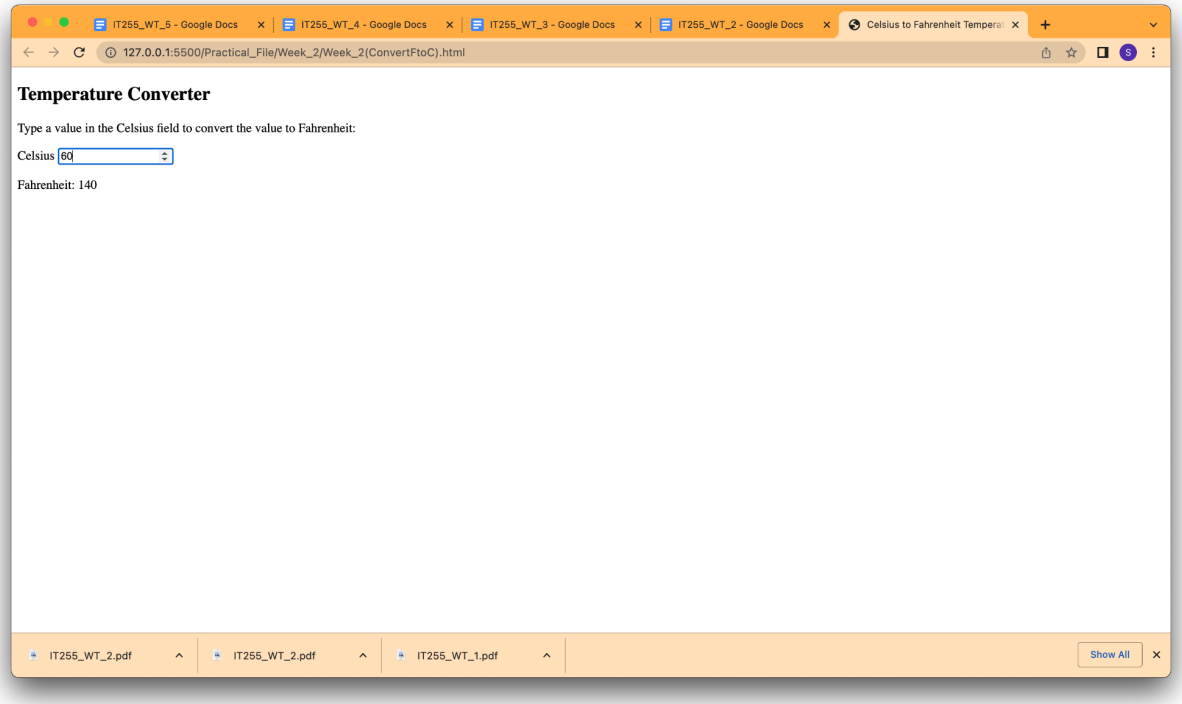

Calculator
127.0.0.1:5500/Practical_File/Week_2/Week_2(Convert).html
Welcome to Calculate me!
45
C
%
M+
M-
7
8
9
*
4
5
6
/
1
2
3
+
0
.
=
-

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

Source Code:

```
<!DOCTYPE html>

<html>
<title>Celsius to Fahrenheit Temperature Converter</title>
<body>

<h2>Temperature Converter</h2>
<p>Type a value in the Celsius field to convert the value to Fahrenheit:</p>

<p>
 <label>Celsius</label>

 <input id="inputCelsius" type="number" placeholder="Celsius"
oninput="temperatureConverter(this.value)" onchange="temperatureConverter(this.value)">
</p>
<p>Fahrenheit: <span id="outputFahrenheit"></span></p>
<script>

function temperatureConverter(valNum)
{
 valNum = parseFloat(valNum);
  document.getElementById("outputFahrenheit").innerHTML=(valNum*1.8)+32;
}

</script>

</body>
</html>
```

Output:



Conclusion:

In this practical, we studied how a function is created in JS file and link the files with the html file. Moreover, what is the basic difference between the input box feature and prompt box feature is something we learned.