

Practical – 2

AIM: 1. Create Basic Calculator using prompt

Source Code:

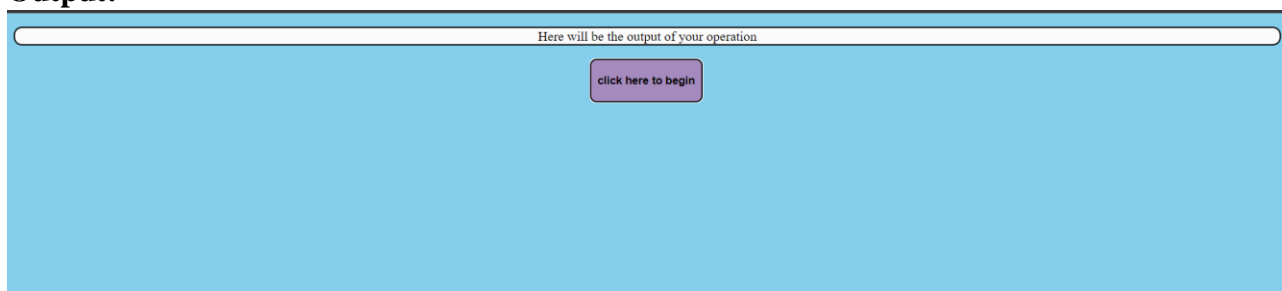
```
<!DOCTYPE html>
<html lang="en">
<head>
  <style>
    body{
      background: rgb(132, 206, 236);
    }
    p{
      background: rgb(251, 251, 251);
      align-items: center;
      align-content: center;
      text-align: center;
      text-decoration: double;
      border:2px solid black;
      border-radius: 10px;
      height: fit-content+20;
      width: fit-content+15;
    }
    button{

      background-color: rgb(165, 138, 190);
      align-items: center;
      align-content: center;
      text-align: center;
      margin-left:45vw;
      padding: 7px;
      height: 7vh;
      border-radius: 7px;
    }
  </style>
  <script>
    function func()
    {
      let a=parseFloat(prompt("Number 1:"));
      let op=prompt("Operation: + - * / %");
      let b=parseFloat(prompt("Number 2:"));
      if(op==='+')
      {
        console.log(a+b);
        document.getElementById("output").innerText=(a+b);
      }
    }
  </script>
</html>
```

```

    }
    else if(op==='-')
    {
        document.getElementById("output").innerText=(a-b);
    }
    else if(op==='/')
    {
        document.getElementById("output").innerText=(a/b);
    }
    else if(op==='*')
    {
        document.getElementById("output").innerText=(a*b);
    }
    else if(op==='%')
    {
        document.getElementById("output").innerText=(a%b);
    }
    else
    {
        alert("Operation not allowed");
    }
}
</script>
<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>Simple calculator using prompt</title>
</head>
<body>
    <p id="output">Here will be the output of your operation </p>
    <button onclick="func()"><b>click here to begin</b></button>
</body>
</html>

```

Output:

This page says

Number 1:

OK Cancel

This page says

Number 2:

OK Cancel

This page says

Operation: + - * / %

OK Cancel

10

click here to begin

2. Create Basic Calculator using inputbox

Source Code:

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

```
<style>
  body{
    background: rgb(122, 228, 236);
  }
  p{
    background-color: rgb(253, 254, 254);
    align-items: center;
    align-content: center;
    text-align: center;
    border: 2px solid black;
    border-radius: 10px;
    height: fit-content+20;
    width: fit-content+15;
  }
  button{
    align-items: center;
    align-content: center;
    text-align: center;
  }
</style>
<script>
  function func(){
    let a=parseFloat(document.getElementById("n1").value);
    let b=parseFloat(document.getElementById("n2").value);
    //console.log(typeof a1)
    let op=document.getElementById("oper").value;
    //console.log(typeof op);
    if(op==='+')
    {
      console.log(a+b);
      document.getElementById("output").innerText=(a+b);
    }
    else if(op==='-')
    {
      document.getElementById("output").innerText=(a-b);
    }
    else if(op==='/')
    {
      document.getElementById("output").innerText=(a/b);
    }
    else if(op==='*')
    {
      document.getElementById("output").innerText=(a*b);
    }
    else if(op==='%')
  }
```

```

        {
            document.getElementById("output").innerText=(a%b);
        }
        else
        {
            alert("Operation not allowed");
        }
    }
</script>
<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 using text input</title>
</head>
<body>
    <p id="output">Here will be your output</p>
    <label for="">Number 1:</label>
    <input type="text" id="n1">
    <label for="">Number 2:</label>
    <input type="text" id="n2">
    <br>
    <select name="operation" id="oper" >
        <option value="+">+</option>
        <option value="-">-</option>
        <option value="*">*</option>
        <option value="/">/</option>
        <option value="%">%</option>
    </select>
    <br>
    <br>
    <button onclick="func()">Click Here to Begin</button>
</body>
</html>

```

Output:



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

Source Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Temperature Converter</title>
  <style>
    form {
      margin: 0 auto;
      width: 240px;
      text-align: center;
    }
    input[type="text"] {
      width: 60px;
      border: 1px solid #ccc;
      border-radius: 4px;
      font-size: 16px;
      padding: 12px 20px;
    }
    select {
      width: 100px;
      border: 1px solid rgb(168, 168, 168);
      border-radius: 4px;
      font-size: 16px;
      padding: 12px 20px;
      margin-left: 10px;
    }
    input[type="button"] {
      width: 100px;
```

```

        background-color: #53c654;
        color: rgb(14, 26, 8);
        border: none;
        border-radius: 4px;
        font-size: 16px;
        cursor: pointer;
        padding: 12px 20px;
        margin-left: 10px;
    }
    div{
        background-color: rgb(253, 254, 254);
        align-items: center;
        align-content: center;
        text-align: center;
        border: 2px solid black;
        border-radius: 10px;
        height: fit-content+20;
        width: fit-content+15;
    }
</style>
</head>
<body>
    <div id="result">Here will be your result</div>
    <br>
    <form>
        <input type="text" id="temp" placeholder="Enter temperature">
        <br><br>
        <select id="conversion-type">
            <option value="celsius-to-fahrenheit">Celsius to Fahrenheit</option>
            <option value="fahrenheit-to-celsius">Fahrenheit to Celsius</option>
        </select>
        <input type="button" value="Convert" onclick="convertTemp()">
    </form>

    <script>
        function convertTemp() {
            var temp = document.getElementById("temp").value;
            var conversionType = document.getElementById("conversion-type").value;
            if (conversionType == "celsius-to-fahrenheit") {
                var result = (temp * 9 / 5) + 32;
            } else if (conversionType == "fahrenheit-to-celsius") {
                var result = (temp - 32) * 5 / 9;
            }
            document.getElementById("result").innerHTML = result + " &deg;F";
        }
    </script>

```

```
}  
</script>  
</body>  
</html>
```

Output:

89.6 °F

32

Celsi

Convert

Conclusion:

From this practical I learned various HTML tags, CSS tags and usage of Javascript for creation of calculator, and convertors.

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.