PRACTICAL – 1

AIM: Design a User Interface for a) Welcome screen b) Multiplication and Addition of any two numbers

- **Code of Welcome.html:**
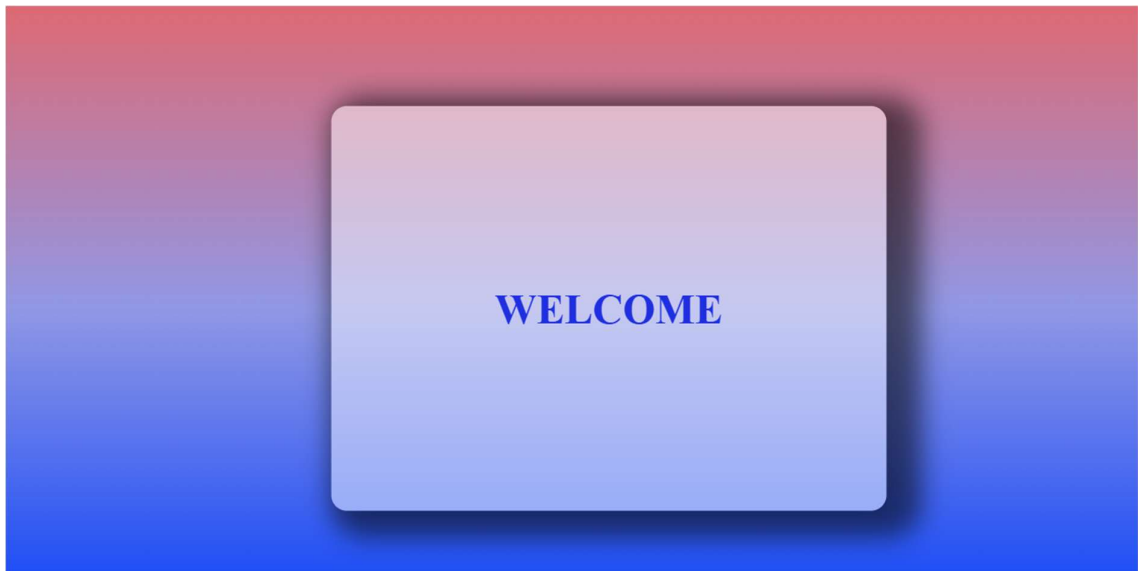
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Welcome</title>
    <style>
      * {
        box-sizing: border-box;
        padding: 0;
        margin: 0;
        font-family: "Times New Roman", Times, serif;
      }
      html {
        width: 100%;
        height: 100%;
        background: linear-gradient(#e66465, #9198e5, rgb(1, 59, 250));
        background-repeat: no-repeat;
      }
      #box {
        display: flex;
        width: 40%;
        height: 60%;
        background-color: white;
        position: absolute;
        top: 50%;
        left: 50%;
        transform: translate(-50%, -50%);
        border: none;
        z-index: 999;
        border-radius: 18px;
        background-color: rgba(255, 255, 255, 0.479);
        box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);
        backdrop-filter: blur(10px);
      }
      #box a {
        display: flex;
        width: 100%;
        flex-wrap: wrap;
        font-weight: 700;
        text-align: center;
        text-transform: uppercase;
        align-items: center;
        justify-content: center;
        font-size: 48px;
        border: none;
        text-decoration: none;
        color: #2030e0;
        border-radius: 18px;
```

```
      box-shadow: rgba(0, 0, 0, 0.548) 20px 10px 30px 20px;
    }
    #box a:hover{
      color: #074feb;
      text-decoration: underline;
      cursor: pointer;
    }
  </style>
 </head>
 <body>
  <div id="box">
    <a href="cal.html">Welcome</a>
  </div>
 </body>
</html>
```

- **Output:**

- **Code of cal.html:**

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1" />
   <title>Simple Calculator</title>
   <style>
    body {
      background: linear-gradient(#e66465, #9198e5, rgb(1, 59, 250));
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }
    .calculator {
      background: #ffffffdd;
      padding: 2rem 3rem;
      border-radius: 15px;
      box-shadow: rgba(0, 0, 0, 0.548) 20px 10px 30px 20px;
      text-align: center;
```

```css
      width: 300px;
    }
    input[type="number"] {
      width: 120px;
      padding: 0.5rem;
      margin: 0.5rem 0.25rem;
      font-size: 1.1rem;
      border-radius: 8px;
      border: 1.5px solid #a777e3;
      outline-color: #6e8efb;
    }
    button {
      padding: 0.55rem 1.5rem;
      margin: 0.5rem 0.5rem 1rem 0.5rem;
      font-size: 1.3rem;
      border: none;
      border-radius: 12px;
      background-color: #6e8efb;
      color: white;
      cursor: pointer;
      transition: background-color 0.3s ease;
    }
    button:hover {
      background-color: #a777e3;
    }
    #result {
      display: block;
      font-size: 1.5rem;
      font-weight: 600;
      color: #4a2c9f;
      min-height: 2em;
      margin-top: 0.5rem;
    }
  </style>
</head>
<body>
  <div class="calculator">
    <input type="number" name="num1" id="num1" placeholder="Enter a number" />
    <input type="number" name="num2" id="num2" placeholder="Enter a number" />
    <div>
      <button id="plus" title="Add">+</button>
      <button id="mul" title="Multiply">*</button>
    </div>
    <label id="result" aria-live="polite"></label>
  </div>
  <script type="text/javascript">
    let btnPlus = document.getElementById("plus");
    let btnMul = document.getElementById("mul");
    let input1 = document.getElementById("num1");
    let input2 = document.getElementById("num2");
    let resultLabel = document.getElementById("result");
    function parseInputs() {
      let val1 = parseFloat(input1.value);
      let val2 = parseFloat(input2.value);
      return { val1, val2 };
    }
    btnPlus.addEventListener("click", function (event) {
      const { val1, val2 } = parseInputs();
```

```
     if (isNaN(val1) || isNaN(val2)) {
       resultLabel.textContent =
         "Please enter valid numbers in both fields.";
       return;
     }
     const sum = val1 + val2;
     resultLabel.textContent = `${val1} + ${val2} = ${sum}`;
   });
   btnMul.addEventListener("click", function (event) {
     const { val1, val2 } = parseInputs();
     if (isNaN(val1) || isNaN(val2)) {
       resultLabel.textContent =
         "Please enter valid numbers in both fields.";
       return;
     }
     const product = val1 * val2;
     resultLabel.textContent = `${val1} × ${val2} = ${product}`;
   });
  </script>
 </body>
</html>
```

- **Output:**