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| **Practical 2:- Develop a Scientific Calculator using JavaScript.** |

**Index.html**

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| <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Practical 2</title>  </head>  <body>  <h2>Scientific Calculator</h2>  <table border="1">  <tr>  <th colspan="6">  <input type="text" id="input" placeholder="0">  </th>  </tr>  <tr>  <td>  <button onclick="backspace()" >CE</button>  </td>  <td>  <button onclick="fact()" >x!</button>  </td>  <td>  <button class="btn" >(</button>  </td>  <td>  <button class="btn" >)</button>  </td>  <td>  <button onclick="input.value=''" >Clear</button>  </td>  <td>  <button class="btn" >%</button>  </td>  </tr>  <tr>  <td>  <button onclick="sin()" >sin</button>  </td>  <td>  <button onclick="pi()" >&#8508;</button>  </td>  <td>  <button class="btn" >7</button>  </td>  <td>  <button class="btn" >8</button>  </td>  <td>  <button class="btn" >9</button>  </td>  <td>  <button class="btn" >/</button>  </td>  </tr>  <tr>  <td>  <button onclick="cos()" >cos</button>  </td>  <td>  <button onclick="log()" >log</button>  </td>  <td>  <button class="btn" >4</button>  </td>  <td>  <button class="btn" >5</button>  </td>  <td>  <button class="btn" >6</button>  </td>  <td>  <button class="btn" >\*</button>  </td>  </tr>  <tr>  <td>  <button onclick="tan()" >tan</button>  </td>  <td>  <button onclick="sqrt()" >&#8730;</button>  </td>  <td>  <button class="btn" >1</button>  </td>  <td>  <button class="btn" >2</button>  </td>  <td>  <button class="btn" >3</button>  </td>  <td>  <button class="btn" >-</button>  </td>  </tr>  <tr>  <td>  <button onclick="e()" >e</button>  </td>  <td>  <button onclick="pow()" >x<sup>2</sup></button>  </td>  <td>  <button class="btn" >0</button>  </td>  <td>  <button class="btn" >.</button>  </td>  <td>  <button onclick="input.value=eval(input.value);">=</button>  </td>  <td>  <button class="btn" >+</button>  </td>  </tr>  <tr>  <td>  <button onclick="radian()" >Rad</button>  </td>  <td>  <button onclick="degree()" >Deg</button>  </td>  <td colspan="4">  <input type="text" disabled placeholder="Asif Alam B.tech CE 26" style="text-align: center;">  </td>  </tr>  </table>  </body>  </html>  **calc.js**  let input = document.getElementById('input');  let btn = document.getElementsByClassName('btn');  for(item of btn){  item.addEventListener('click',function(e){  btnText = e.target.innerHTML;  input.value += btnText;  });  }  function sin(){  input.value = Math.sin(input.value);  }  function cos(){  input.value = Math.cos(input.value);  }  function tan(){  input.value = Math.tan(input.value);  }  function pow(){  input.value = Math.pow(input.value,2);  }  function log(){  input.value = Math.log(input.value);  }  function sqrt(){  input.value = Math.sqrt(input.value);  }  function pi(){  input.value = 3.14159265359;  }  function e(){  input.value = 2.7182812846;  }  function fact(){  var f=1;  for (i=1; i<=input.value; i++){  f \*= i;  }  input.value = f;  }  function backspace(){  input.value = input.value.substr(0,input.value.length-1);  }  function radian(){  let rad = input.value;  input.value = (rad\*180)/3.14;  }  function degree(){  let deg = input.value;  input.value = (deg\*180)/3.14;  }  **Output:-** |