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| **Lab No** | 02 | **Reg. No** | 224921 |
| **Student Name** | Muhammad Saad Tariq | **Section** | A |

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| Solution |
| Task Code:  <!DOCTYPE html>  <html>  <head>  <title>  Web Calculator  </title>  <style type="text/css">  table{  height: 60%;  width: 100%;  border: 5px solid;  table-layout: fixed;  }  td{  border: 1px solid;  padding: 10px;  background-color: #E3EAEB;  font-size: 50px;  text-align: center;  width : 20%;  }  </style>  </head>  <body>  <table>  <tr>  <td colspan = "5" id = "ans" style = "font-size: 50px; text-align: right;">Ans</td>  </tr>  <tr>  <td id = "mc">MC</td>  <td id = "zero">0</td>  <td id = "one">1</td>  <td id = "two">2</td>  <td id = "plus">+</td>  </tr>  <tr>  <td id = "ms">MS</td>  <td id = "three">3</td>  <td id = "four">4</td>  <td id = "five">5</td>  <td id = "minus">-</td>  </tr>  <tr>  <td id = "mr">MR</td>  <td id = "six">6</td>  <td id = "seven">7</td>  <td id = "eight">8</td>  <td id = "mul">\*</td>  </tr>  <tr>  <td id = "m">M+</td>  <td id = "nine">9</td>  <td id = "mod">+-</td>  <td id = "eq">=</td>  <td id = "divide">/</td>  </tr>  <tr>  <td id = "inv">1/x</td>  <td id = "dec">.</td>  <td id = "sqr">x^2</td>  <td id = "sqroot">√</td>  <td id = "clr">C</td>  </tr>  </table>  <script type="text/javascript">  var dest = document.getElementById("ans")  var arr = [];  var arr\_index = 0;  var statement;  var store\_disp;  window.addEventListener("click", check);  function check(event){  let str = document.getElementById(event.target.id);  if((str.innerHTML == '+' || str.innerHTML == '-' || str.innerHTML == '\*' || str.innerHTML == '/' || str.innerHTML == '√' || str.innerHTML == 'x^2' || str.innerHTML == '1/x') && arr\_index == 0){  dest.innerHTML = "Enter a valid option";  }  else if(!(str.innerHTML == '=' || str.innerHTML == 'C' || str.innerHTML == '√' || str.innerHTML == 'x^2' || str.innerHTML == '1/x' || str.innerHTML == 'MC' || str.innerHTML == 'MS' || str.innerHTML == 'MR' || str.innerHTML == 'M+' || str.innerHTML == '+-') && arr\_index == 0){  arr[arr\_index] = str.innerHTML;  dest.innerHTML = str.innerHTML;  arr\_index++;  }  else if(!(str.innerHTML == '=' || str.innerHTML == 'C' || str.innerHTML == '√' || str.innerHTML == 'x^2' || str.innerHTML == '1/x' || str.innerHTML == 'MC' || str.innerHTML == 'MS' || str.innerHTML == 'MR' || str.innerHTML == 'M+' || str.innerHTML == '+-') && arr\_index > 0){  arr[arr\_index] = str.innerHTML;  for(let i = 0; i < arr.length; i++){  dest.innerHTML = arr.join("");  statement = arr.join("");  }  arr\_index++;  }  else if (str.innerHTML == '='){  dest.innerHTML = eval(statement);  clearOP();  }  else if (str.innerHTML == 'C'){  for(let i = 0; i < arr.length; i++)  arr[i] = null;  arr\_index = 0;  dest.innerHTML = "Ans";  }  else if (str.innerHTML == '√'){  let sqr\_val = dest.innerHTML;  dest.innerHTML = Math.sqrt(sqr\_val);  clearOP();  }  else if (str.innerHTML == 'x^2'){  let sq\_num = dest.innerHTML;  dest.innerHTML = (sq\_num \* sq\_num);  clearOP();  }  else if (str.innerHTML == '1/x'){  let inverse = dest.innerHTML;  dest.innerHTML = (1 / inverse);  clearOP();  }  else if(str.innerHTML == '+-'){  let temp = dest.innerHTML;  if(dest.innerHTML > 0){  //dest.innerHTML = '-'+temp;  dest.innerHTML = ~temp+1;  }  else if (dest.innerHTML < 0){  dest.innerHTML = Math.abs(temp);  }  clearOP();  }  else if (str.innerHTML == 'MS'){  store\_disp = dest.innerHTML;  clearOP();  }  else if (str.innerHTML == 'MC'){  store\_disp = null;  }  else if (str.innerHTML == 'MR'){  dest.innerHTML = store\_disp;  clearOP();  }  else if (str.innerHTML == 'M+'){  let m\_plus = dest.innerHTML;  parseInt(m\_plus);  parseInt(store\_disp);  dest.innerHTML = (store\_disp + m\_plus);  clearOP();  }    }  function clearOP(){  for(let i = 0; i < arr.length; i++)  arr[i] = null;  arr[0] = dest.innerHTML;  arr\_index = 1;  }  </script>  </body>  </html>  Task Output Screenshot:      Square:    Sqr Root: |