

Input:

Index.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta name="viewport" content="width=device-width, initial-scale=1.0" />

  <title>Calculator by Vishwajeet</title>

  <link rel="stylesheet" href="style.css">

</head>

<body >

  <h2> CALCULATOR</h2>

  <div class="calculator">

    <div class="display">

      <input type="text" placeholder="0" id="input" disabled />

    </div>

    <div class="buttons">

      <input type="button" value="C" id="clr" />

      <input type="button" value="DEL" id="del" />

      <input type="button" value="/" class="input-button" />

      <input type="button" value="*" class="input-button" />

      <input type="button" value="7" class="input-button" />

      <input type="button" value="8" class="input-button" />

      <input type="button" value="9" class="input-button" />

      <input type="button" value="-" class="input-button" />

      <input type="button" value="6" class="input-button" />

      <input type="button" value="5" class="input-button" />

      <input type="button" value="4" class="input-button" />

    </div>

  </div>

</body>

</html>
```

```
<input type="button" value="+" class="input-button" />
<input type="button" value="x2" class="input-button" id="square">
<input type="button" value="1" class="input-button" />
<input type="button" value="2" class="input-button" />
<input type="button" value="3" class="input-button" />
<input type="button" value="=" id="equal" />
<input type="button" value="0" class="input-button" />
<input type="button" value="." class="input-button" />
</div>
</div>

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

</html>
```

Style.css

```
h2 {
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
  color: rgb(8, 8, 8);
  font-size: x-large;
  font-weight: bold;
  text-align: center;
  text-shadow: 2px 2px #9490ac;
  text-decoration-color: #9490ac;
}

body {
  height: 100px;
  background: linear-gradient(
    to right, rgb(253, 77, 77) 0%, rgb(250, 165, 68) 50%, rgb(250, 170, 79) 50%, rgb(226, 196, 115) 100%
```

```
);
```

```
}
```

```
*{
```

```
padding: 0;
```

```
margin: 0;
```

```
box-sizing: border-box;
```

```
font-family: "Roboto Mono", monospace;
```

```
}
```

```
.calculator {
```

```
width: 400px;
```

```
background-color: #212224;
```

```
padding: 50px 30px;
```

```
position: absolute;
```

```
transform: translate(-50%, -50%);
```

```
top: 50%;
```

```
left: 50%;
```

```
border-radius: 8px;
```

```
border-color: aqua;
```

```
box-shadow: 0 20px 50px rgba(149, 164, 238, 0.4);
```

```
}
```

```
.display {
```

```
width: 100%;
```

```
}
```

```
.display input {
```

```
width: 100%;
```

```
padding: 15px 10px;
```

```
text-align: right;
```

```
border: none;
```

```
background-color: transparent;
```

```
color: #ffffff;
```

```

font-size: 35px;
}

.display input::placeholder {
color: #9490ac;
}

.buttons {
display: grid;
grid-template-columns: repeat(4, 1fr);
grid-gap: 20px;
margin-top: 40px;
}

.buttons input[type="button"] {
font-size: 20px;
padding: 17px;
border: none;
background-color: transparent;
color: #ffffff;
cursor: pointer;
border-radius: 5px;
}

.buttons input[type="button"]:hover {
box-shadow: 0 16px 35px #01ff16c9;
}

input[type="button"]#equal {
grid-row: span 2;
background-color: #78787a;
}

input[type="button"][value="0"] {
grid-column: span 2;
}

```

Script.js

```

let equal_pressed = 0;

let button_input = document.querySelectorAll(".input-button");

let input = document.getElementById("input");
let equal = document.getElementById("equal");
let clr = document.getElementById("clr");
let del = document.getElementById("del");
let square = document.getElementById("square"); // New square button

window.onload = () => {
  input.value = "";
};

button_input.forEach((button_class) => {
  button_class.addEventListener("click", () => {
    if (equal_pressed == 1) {
      input.value = "";
      equal_pressed = 0;
    }
    input.value += button_class.value;
  });
});

// Operation = (Evaluate)
equal.addEventListener("click", () => {
  equal_pressed = 1;
  let inp_val = input.value;
  try {
    // Evaluate user's input
    let solution = eval(inp_val);
    // True for natural numbers

```

```

// False for decimals
if (Number.isInteger(solution)) {
    input.value = solution;
} else {
    input.value = solution.toFixed(2);
}
} catch (err) {
    // If user has entered invalid input
    alert("Invalid Input");
}
});

// Operation Clear
clr.addEventListener("click", () => {
    input.value = "";
});

// Operation Delete (Backspace)
del.addEventListener("click", () => {
    input.value = input.value.substr(0, input.value.length - 1);
});

// Operation Square (new functionality)
square.addEventListener("click", () => {
    let inp_val = input.value;
    if (inp_val) {
        input.value = Math.pow(parseFloat(inp_val), 2); // Square the number
    } else {
        alert("Please enter a number to square.");
    }
});

```

Output:

