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DEPARTMENT OF COMPUTER STUDIES ITEC 106 – IT ELECTIVE 2 (WEB SYSTEM AND TECHNOLOGIES 2)

Name: Janvier Erickson C. Araque	Section: BSIT 3C
Assignment No: 1	Submission Date: Mar. 16, 2024
Assignment Title: Calculator	

```
Code:
HTML FILE(index.html)
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title >Rock Paper Scissors</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div id="calculator">
     <input id="show">
     <div id="buttons">
       <button onclick="displayVal('+')" class="operation">+</button>
       <button onclick="displayVal('7')">7</button>
       <button onclick="displayVal('8')">8</button>
       <button onclick="displayVal('9')">9</button>
       <button onclick="displayVal('-')" class="operation">-</button>
       <button onclick="displayVal('4')">4</button>
       <button onclick="displayVal('5')">5</button>
       <button onclick="displayVal('6')">6</button>
       <button onclick="displayVal('*')" class="operation">*</button>
       <button onclick="displayVal('1')">1</button>
       <button onclick="displayVal('2')">2</button>
       <button onclick="displayVal('3')">3</button>
       <button onclick="displayVal('/')" class="operation">/</button>
       <button onclick="displayVal('0')">0</button>
       <button onclick="displayVal('.')">.</button>
```

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```
<button onclick="calculate()">=</button>
        <button onclick="clearCalculator()" class="operation">C</button>
     </div>
    <script src="index.js"></script>
</body>
</html>
JS FILE(index.js)
const display = document.getElementById('show');
function calculate() {
  try {
     display.value = eval(display.value);
  } catch (error) {
     display.value = "Error, try again!";
  }
}
function displayVal(input) {
  display.value += input;
}
function clearCalculator() {
  display.value = "";
}
CSS FILE(style.css)
  margin: 0;
  padding: 0;
  font-family: 'Poppins';
}
:root{
  --Background--: hsl(0, 0%, 15%);
  --fontColor--: hsl(0, 0%, 96%);
  --gray--: hsl(0, 0%, 30%);
  --LightButtons--: hsl(47, 100%, 46%);
  --hoverLightButtons--: hsl(47, 100%, 50%);
  --activeLightButtons--: hsl(38, 100%, 50%);
```

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```
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```

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```
--hoverDark--: hsl(0, 1%, 23%);
  --activeButton--: hsl(0, 0%, 60%);
}
body{
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
}
#show{
  width: 100%;
  background-color: var(--gray--);
  text-align: left;
  border: none;
  height: 100px;
  color: var(--fontColor--);
  font-size: 3rem;
  font-weight: bold;
  padding: 10px 0 10px 13px;
#calculator{
  background-color: var(--Background--);
  max-width: 400px;
  overflow: hidden;
  border-radius: 30px;
}
#buttons{
  display: grid;
  grid-template-columns: repeat(4, 1fr);
  gap: 5px;
  margin-top: 10px;
  padding: 10px;
}
button{
  background-color: var(--gray--);
```

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```
color: var(--fontColor--);
  font-size: 30px;
  cursor: pointer;
  border: none;
  border-radius: 50%;
  height: 80px;
  width: 80px;
  font-weight: bold;
  transition: background-color 0.3s;
button:hover{
  background-color: var(--hoverDark--);
button:active{
  background-color: var(--activeButton--);
}
.operation{
  background-color: var(--LightButtons--);
  transition: background-color 0.3s;
.operation:hover{
  background-color: var(--hoverLightButtons--);
.operation:active{
  background-color: var(--activeLightButtons--);
}
```

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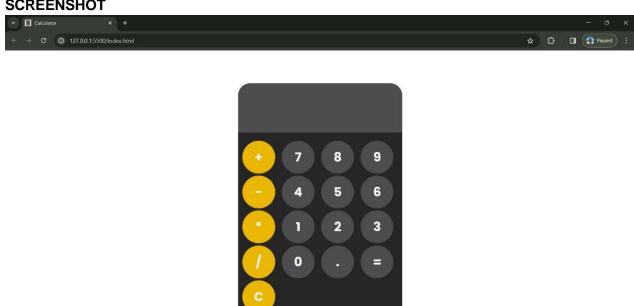
CvSU Mission

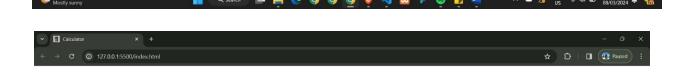
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and development activities.

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SCREENSHOT









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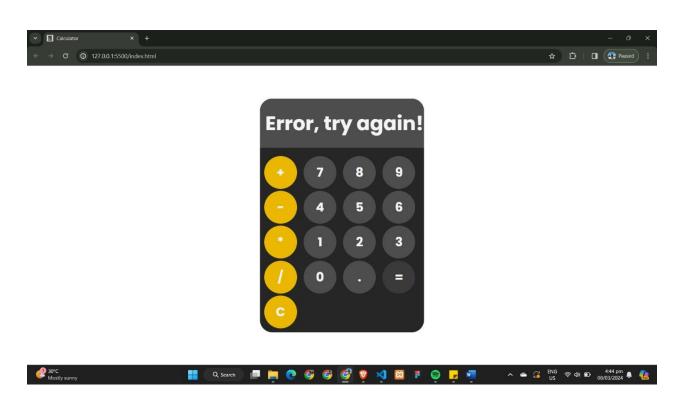
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Dictionary:

eval - I used this function to evaluate the mathematical expression entered by the user and update the display with the result.

Syntax: display.value = eval(display.value);

Parameters: display.value: The current value entered by the user is evaluated as a JavaScript expression.

```
display.value = eval("2 + 3 * 4");
console.log(display.value);
Output: 14
```

try: - I used the **try** block to enclose code that might throw an exception. In this case, it's used to attempt the evaluation of the expression.

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Parameters: The block of code inside the try statement that may potentially throw an exception.

Output: Error, try again

catch(error) – I used the catch bck to handle exceptions thrown within the try block. In this case, it catches any errors that occur during the evaluation and displays an error message.

Output: Error: unknownFunction is not defined

onclick= - I used this attribute in HTML to specify an action (calling the displayVal function with a parameter) when a button is clicked.

Syntax: <button onclick="displayVal('+')" class="operation">+</button>

Parameters: displayVal('+'): The specific action (calling displayVal with the parameter '+') to be executed when the button is clicked.

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const - I used this keyword to declare a constant variable display that references an HTML element with the id 'show'.

Syntax: const display = document.getElementById('show');

Parameters: display: The constant variable referencing the HTML element used to display calculator inputs and results.

const display = document.getElementById('show');

console.log(display);

Output: The constant variable referencing the HTML element with the id 'show'

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