

CvSU Vision

The premier University in historic Cavite recognized for excellence in the development of globally competitive and morally upright individuals.

**CAVITE STATE UNIVERSITY****Imus Campus**

Cavite Civic Center Palico IV, Imus, Cavite
(046) 471-66-07 / (046) 471-67-70 / (046) 686- 23-49
www.cvsu.edu.ph

CvSU Mission

Cavite State University shall provide excellent, equitable and relevant educational opportunities in the arts, sciences and technology through quality instruction and responsive research and development activities.
It shall produce professional, skilled and morally upright individuals for global competitiveness.

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

Name : Mark Jules Barrantes	Section : BSIT 3A
Assignment No : 1	Submission Date : Mar. 16, 2024
Assignment Title: Calculator	

Code :**HTML FILE**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Calculator</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container">
    <div class="center">
      <input id="display" class="display" readonly>
      <div class="buttons">
        <button class="clear" onclick="clearDisplay()">CC</button>
        <br>
        <button class="numbers" onclick="displayNum('1')">1</button>
        <button class="numbers" onclick="displayNum('2')">2</button>
        <button class="numbers" onclick="displayNum('3')">3</button>
        <button class="operations" onclick="displayNum('+")>+</button>
        <br>
        <button class="numbers" onclick="displayNum('4')">4</button>
        <button class="numbers" onclick="displayNum('5')">5</button>
        <button class="numbers" onclick="displayNum('6')">6</button>
        <button class="operations" onclick="displayNum('-")>-</button>
        <br>
        <button class="numbers" onclick="displayNum('7')">7</button>
        <button class="numbers" onclick="displayNum('8')">8</button>
        <button class="numbers" onclick="displayNum('9')">9</button>
      </div>
    </div>
  </div>
</body>
</html>
```

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

```
<button class="operations" onclick="displayNum('*')">*</button>
<br>
<button class="numbers" onclick="displayNum('0')">0</button>
<button class="numbers" onclick="displayNum('.')">.</button>
<button class="equals" onclick="calculateNum()">=</button>
<button class="operations" onclick="displayNum('/')">/</button>
</div>
</div>
</div>
<script src="script.js"></script>
</body>
</html>
```

JS FILE

```
let displayNumber = "";
```

```
function displayNum(value) {
    displayNumber += value;
    document.getElementById(display.id).value = displayNumber;
}
```

```
function calculateNum(){

    displayNumber = eval(displayNumber);
    document.getElementById('display').value = displayNumber;
}
```

```
function clearDisplay(){

    displayNumber = "";
    document.getElementById('display').value = displayNumber;
}
```

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CSS FILE

```
*{
    padding: 0;
    margin: 0;
}
.container{
    display: flex;
    height: 100vh;
    justify-content: center;
    align-items: center;
}
.center{
    background-color: rgb(180, 121, 163);
    padding: 20px;
    border: 2px solid rgb(92, 92, 92);
}

.display{
    font-size: 25px;
    border: 2px solid rgb(92, 92, 92);
    padding: 15px;
    width: 410px;
    height: 30px;
    margin: 5px;
}
.buttons button {
    border: none;
    padding: 20px;
    height: 100px;
    width: 100px;
    margin: 5px;
    font-size: 25px;
}
.clear{
    background-color: rgb(240, 216, 216);
}
.clear:hover{
    background-color: rgb(211, 197, 197);
}
```

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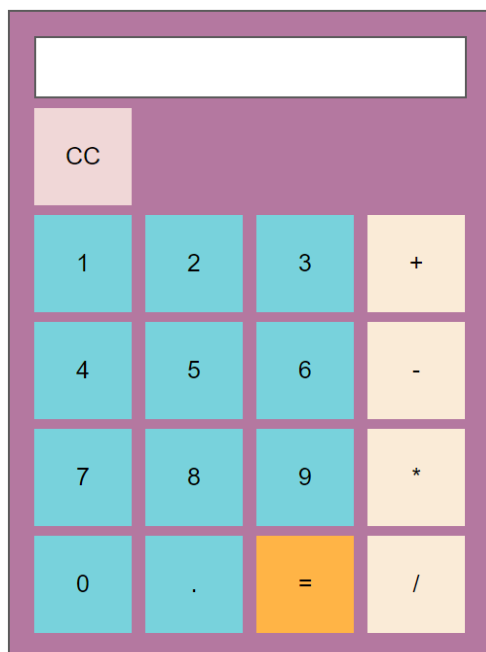
It shall produce professional, skilled and morally upright individuals for global competitiveness.

DEPARTMENT OF COMPUTER STUDIES

ITEC 106 – IT ELECTIVE 2 (WEB SYSTEM AND TECHNOLOGIES 2)

```
.operations{
  background-color: antiquewhite;
}
.operations:hover{
  background-color: rgb(240, 228, 214);
}
.numbers{
  background-color: rgb(120, 214, 221);
}
.numbers:hover{
  background-color:rgb(168, 224, 228) ;
}
.equals{
  background-color: rgb(255, 183, 74);
}
.equals:hover{
  background-color: rgb(216, 169, 98);
}
```

SCREENSHOT



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Dictionary:

- **eval** - this method computes the expression within.
displayNumber = eval(displayNumber);
Syntax : eval(string)
Parameter : string (hold an expression, variable, statement, or sequence of statements.
- **onclick** - calls a function when clicked
onclick="displayNum('1')"
Syntax : onclick="function_name(value)"
Parameter : function_name (is the function to be called, can either contain or not contain a value within the parameter)

```
function displayNum(value) {  
    displayNumber += value;  
    document.getElementById(display.id).value = displayNumber;  
}
```

```
<button class="numbers" onclick="displayNum('1')">1</button>  
<input id="display" class="display" readonly>  
Output: 1
```

- **button tag**- this tag creates a button
<button class="numbers" onclick="displayNum('1')">1</button>
Syntax : <button></button>
Attribute: onclick (an event that calls a function)

```
function displayNum(value) {  
    displayNumber += value;  
    document.getElementById(display.id).value = displayNumber;  
}
```



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

```
<button class="numbers" onclick="displayNum('1')">1</button>  
<input id="display" class="display" readonly>  
Output: 1
```

- **script tag** - this is used to embed a script, can either contain a statement or a redirect to an external script file
- `<script src="script.js"></script>`
Syntax : `<script src="script_file_name.js"></script>`
Attribute: src (redirect the tag to an external script source)

script.js

```
function displayNum(value) {  
    displayNumber += value;  
    document.getElementById(display.id).value = displayNumber;  
}
```

index.html

```
<button class="numbers" onclick="displayNum('1')">1</button>  
<input id="display" class="display" readonly>  
<script src="script.js"></script>  
Output: 1
```

- **div tag** - this tag is used to define a division or as a container in the html file
`<div class="container">`
Syntax : `<div></div>`
Attributes: id, class, (gives a unique identifier for the specific division)

Index.html

```
<link rel="stylesheet" href="style.css">  
<div class="container">  
    <p>Hello world</p>  
</div>
```

style.css

```
.container{  
    color:black;  
}
```

Output: *font color change to black