

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
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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 : 3	Submission Date : Apr. 6, 2024
Assignment Title: Guessing Number Game	

Code :**HTML FILE**

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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

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

```
  <title>Guessing Number Game</title>
```

```
</head>
```

```
<body>
```

```
  <div class="container-in">
```

```
    <div class="center">
```

```
      <h1 class="counter">counter: <span id="counter"></span></h1>
```

```
      <h1 id="display">#</h1>
```

```
      <h1 id="words">//</h1>
```

```
      <input type="text" name="guess" id="guess"><br>
```

```
      <br>
```

```
      <button class="button" onclick="guessNumber()">GUESS</button>
```

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

```
    </div>
```

```
  </div>
```

```
</body>
```

```
</html>
```

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

```
let counter = 0;
function guessNumber() {
    const guessInput = document.getElementById('guess');
    const guessInputValue = guessInput.value;
    console.log(guessInputValue);
    if (guessInputValue < 1 || guessInputValue > 10) {
        document.getElementById('words').innerHTML = "please input a number between 1-10"
    }
    else if (guessInputValue >= 1 && guessInputValue <= 10) {
        var randomNumberGenerator = Math.floor((Math.random() * 10) + 1);
        document.getElementById('display').innerHTML = randomNumberGenerator;
        if (guessInputValue == randomNumberGenerator) {
            document.getElementById('words').innerHTML = "Correct Guess";
            resetCounter();
        } else if (guessInputValue != randomNumberGenerator) {
            if (guessInputValue < randomNumberGenerator) {
                document.getElementById('words').innerHTML = "Guess is too low";
            }
            if (guessInputValue > randomNumberGenerator) {
                document.getElementById('words').innerHTML = "Guess is too high";
            }
            guessCounter();
        }
    }
    document.getElementById('guess').value = "";
}
function guessCounter() {
    counter++;
    document.getElementById('counter').innerHTML = counter;
}
function resetCounter() {
    counter = 0;
    document.getElementById('counter').innerHTML = counter;
}
```

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

CSS FILE

```
*{
    padding: 0;
    margin: 0;
}
.container-in {
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
}
.center {
    background: rgb(215, 226, 255);
    padding: 10px;
    text-align: center;
    border: 1px solid black;
    padding: 50px;
    width: 40vh;
}
.counter{
    text-align: left;
}
.button{
    border: 1px solid black;
    background-color: rgb(178, 255, 178);
    font-size: 150%;
}
.button:hover {
    border: 1px solid black;
    background-color: rgb(143, 194, 34);
}
```



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SCREENSHOT

A screenshot of a web application with a light blue background. It displays a number guessing game interface. At the top, it says "counter: 1" in a large, bold, black font. Below that, the number "10" is displayed in a large, bold, black font. Underneath "10", it says "Guess is too low" in a large, bold, black font. Below this text, there is a text input field containing the number "4". Below the input field, there is a green rectangular button with the word "GUESS" in white, bold, capital letters.

Dictionary:

- **Function** - A JavaScript function is a block of code designed to perform a particular task.

```
function guessCounter() {  
    counter++;  
    document.getElementById('counter').innerHTML = counter;  
}
```

Syntax :

```
function name(parameter1, parameter2, parameter3) {  
    // code to be executed  
}
```

Parameter : value (a variable that holds a value to be use in the function)

```
function guessCounter() {  
    counter++;  
    document.getElementById('counter').innerHTML = counter;  
}
```



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

- **onclick** - calls a function when clicked
onclick="handToPlay('0')"
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)

```
<input type="text" name="guess" id="guess"><br>
<button class="button" onclick="guessNumber()">GUESS</button>
```

```
function guessNumber() {
    const guessInput = document.getElementById('guess');
    const guessInputValue = guessInput.value;
    console.log(guessInputValue);
}
```

Output: */number that was input

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

```
<input type="text" name="guess" id="guess"><br>
<button class="button" onclick="guessNumber()">GUESS</button>
```

```
function guessNumber() {
    const guessInput = document.getElementById('guess');
    const guessInputValue = guessInput.value;
    console.log(guessInputValue);
}
```

- **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

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```
function guessNumber() {  
    const guessInput = document.getElementById('guess');  
    const guessInputValue = guessInput.value;  
    console.log(guessInputValue);  
}
```

index.html

```
<input type="text" name="guess" id="guess"><br>  
<button class="button" onclick="guessNumber()">GUESS</button>
```

Output: */number that was input

- **div tag** - this tag is used to define a division or as a container in the html file

```
<div class="center">
```

Syntax : <div></div>

Attributes: id, class, (gives a unique identifier for the specific division)

Index.html

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

```
<div class="center">
```

```
    <p>Hello world</p>
```

```
</div>
```

style.css

```
.container{
```

```
    color:black;
```

```
}
```

Output: *font color change to black