

**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**

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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 : Karin T. Lumongsud	Section : BSIT 3C
Assignment No : 2	Submission Date :03/23/2024
Assignment Title: Rock, Paper, Scissor	

**Code :**

**HTML FILE**

// insert code

```
<!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" type="text/css" href="styles.css">
</head>
<body>
  <h1>Rock Paper Scissors</h1>
  <div id="game-container">
    <div class="choice" onclick="playGame('rock') ">
      
      <p>Rock</p>
    </div>
    <div class="choice" onclick="playGame('paper') ">
      
      <p>Paper</p>
    </div>
    <div class="choice" onclick="playGame('scissors') ">
      
      <p>Scissors</p>
    </div>
  </div>
</body>
</html>
```

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```
</div>
<div id="result"></div>

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

#### JS FILE

// insert code

```
<script>
    function playGame(playerChoice) {
        const choices = ['rock', 'paper', 'scissors'];
        const computerChoice = choices[Math.floor(Math.random() *
choices.length)];

        let result;

        if (playerChoice === computerChoice) {
            result = "IT'S A TIE!";
        } else if (
            (playerChoice === 'rock' && computerChoice === 'scissors')
||
            (playerChoice === 'paper' && computerChoice === 'rock') ||
            (playerChoice === 'scissors' && computerChoice ===
'paper')
        ) {
            result = "YOU WIN!";
        } else {
            result = "YOU LOSE!";
        }
    }
```

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```
document.getElementById('result').innerText = `COMPUTER:
${computerChoice.toUpperCase()}, PLAYER: ${playerChoice.toUpperCase()},
${result}`;
}
</script>
```

#### CSS FILE

// insert code

```
<style>
  body {
    font-family: Arial, sans-serif;
    text-align: center;
    background-color: #f3f3f3;
  }

  h1 {
    margin-top: 50px;
    color: #333;
  }

  #game-container {
    display: flex;
    justify-content: center;
    align-items: center;
    margin-top: 50px;
  }

  .choice {
    cursor: pointer;
    margin: 10px;
    padding: 20px;
    border: 2px solid #333;
    border-radius: 10px;
    transition: all 0.3s ease;
  }
```

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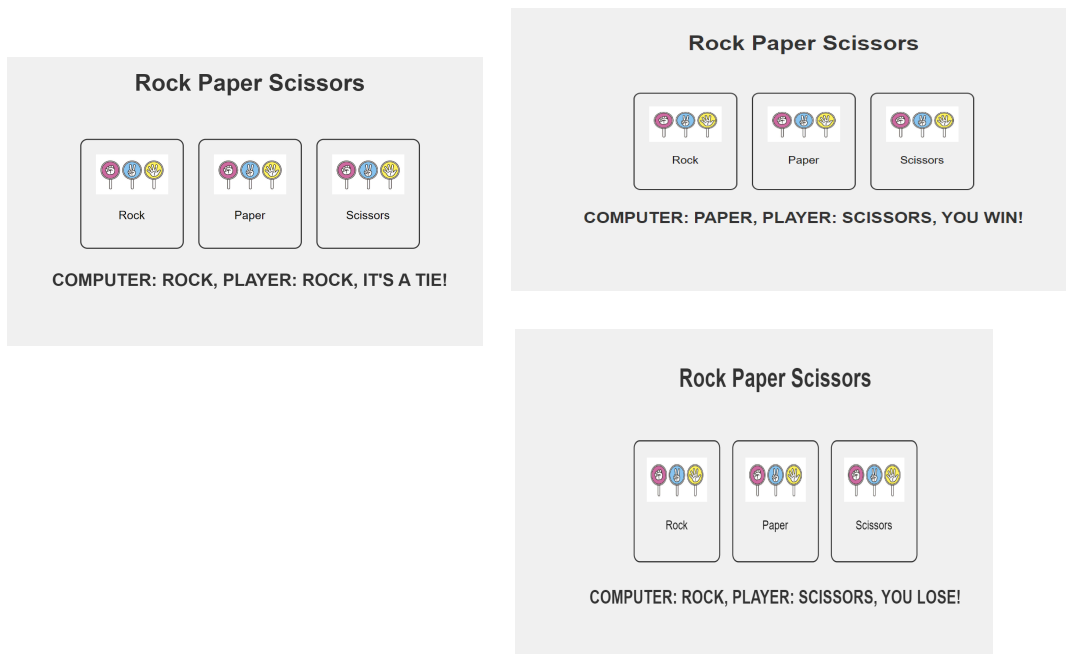
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```
.choice:hover {  
    background-color: #eee;  
}  
  
#result {  
    margin-top: 20px;  
    font-size: 24px;  
    font-weight: bold;  
    color: #333;  
}  
  
.choice img {  
    max-width: 100px;  
    max-height: 100px;  
}  
  
</style>
```

### SCREENSHOT

// insert photo/image/screenshot of output



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#### Dictionary:


*// List keywords, tags, or methods that are new to you and explain how they are used in the code.*

*// at least 5 tag, methods or keyword*

**onclick="...":** Event attribute that specifies a JavaScript function to run when a user clicks on an element.

For example, in the context of the Rock Paper Scissors game, you might have elements representing the choices "rock", "paper", and "scissors" that users can click on to make their selection. You can use `onclick` to trigger a JavaScript function that handles the game logic when each choice is clicked.

html

 Copy code

```
<button onclick="startGame()">Start Game</button>
```

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**Cursor** - CSS property used to specify the type of cursor to be displayed when hovering over an element.

Here's an example of how you can use the `cursor` property in CSS:

```
css
Copy code

.button {
  cursor: pointer;
}

.text-input {
  cursor: text;
}

.moveable {
  cursor: move;
}
```

**Math.floor()** - method in JavaScript is a built-in function that takes a single parameter, typically a floating-point number, and returns the largest integer that is less than or equal to the given number. In other words, it rounds down a number to the nearest whole number (integer) that is less than or equal to the original number.

For example, in the context of the Rock Paper Scissors game, you might use `Math.floor()` to generate a random index for selecting elements from an array, ensuring that the index is always an integer within the valid range of array indices.

```
javascript
Copy code

let randomNumber = Math.random() * 10; // Generate a random number between 0 and 10
let roundedNumber = Math.floor(randomNumber); // Round down the random number to the
console.log(roundedNumber); // Output the rounded number
```

In this example, `randomNumber` is a random floating-point number between 0 and 10, and `roundedNumber` is the largest integer less than or equal to `randomNumber`, effectively removing the decimal part of the number.

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`Math.random()` method- in JavaScript is a built-in function that generates a pseudo-random floating-point number between 0 (inclusive) and 1 (exclusive).

```
javascript Copy code  
  
let randomNumber = Math.random(); // Generate a random number between 0 (inclusive) and 1 (exclusive)  
console.log(randomNumber); // Output the random number
```

In this example, `randomNumber` will contain a pseudo-random floating-point number between 0 (inclusive) and 1 (exclusive). Each time you run this code, a different random number will be generated.

`toUpperCase()` method- in JavaScript is a built-in function that is used to convert all the characters in a string to uppercase letters. This method does not take any arguments and returns a new string with all the characters converted to uppercase.