

**CvSU Vision**

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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: Janvier Erickson C. Araque	Section: BSIT 3C
Assignment No: 2	Submission Date: Mar. 16, 2024
Assignment Title: Rock Paper Scissors	

**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="gamePlay">
    <h2>Rock-Paper-Scissors Game</h2>
    <div class="selector">
      <button onclick="start('rock')">✊ </button>
      <button onclick="start('paper')">✋ </button>
      <button onclick="start('scissors')">✌️ </button>
    </div>
  </div>
  <div id="player">PLAYER: </div>
  <div id="computer">COMPUTER: </div>
  <div id="result"></div>
  <script src="index.js"></script>
</body>
</html>
```



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**JS FILE(index.js)**

```
const selector = ["rock", "paper", "scissors"];
const player = document.getElementById("player");
const computer = document.getElementById("computer");
const resultElement = document.getElementById("result");

function start(playerSelector) {
    const compChoice = selector[Math.floor(Math.random() * 3)];
    let resultMessage = "";

    if (playerSelector === compChoice) {
        resultMessage = "Opps it's a tied!";
        resultElement.style.color = (resultMessage === "Opps it's a tied!") ? "orange" : "";
    } else {
        switch (playerSelector) {
            case "rock":
                resultMessage = (compChoice === "scissors") ? "You Win!" : "You Lose!";
                break;
            case "paper":
                resultMessage = (compChoice === "rock") ? "You Win!" : "You Lose!";
                break;
            case "scissors":
                resultMessage = (compChoice === "paper") ? "You Win!" : "You Lose!";
                break;
        }
        resultElement.style.color = (resultMessage === "PANALO KA") ? "green" : "red";
    }

    player.textContent = `Player: ${playerSelector}`;
    computer.textContent = `Computer: ${compChoice}`;
    resultElement.textContent = resultMessage;
}
```

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**CSS FILE(style.css)**

```
*{
  margin: 0;
  padding: 0;
  font-family: 'poppins'
}

:root{
  --background--: hsl(200, 100%, 50%);
  --hoverBack--: hsl(200, 100%, 70%);
}

body{
  margin: 0;
  display: flex;
  align-items: center;
  flex-direction: column;
}

#gamePlay{
  margin-bottom: 30px;
}

#gamePlay h2{
  font-size: 35px;
}

#gamePlay .selector{
  display: flex;
  justify-content: center;
}
#gamePlay .selector button{
  font-size: 60px;
  margin: 0 10px;
  min-width: 100px;
  border-radius: 250px;
  cursor: pointer;
  background-color: var(--background--);
}
```

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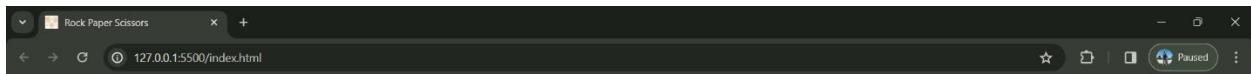
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```
#gamePlay .selector button:hover{
    background-color: var(--hoverBack--);
}
```

```
#player , #computer{
    font-size: 35px;
    font-weight: bold;
}
#result{
    font-size: 30px;
    font-weight: bold;
}
```

**SCREENSHOT**



**Rock-Paper-Scissors Game**



**PLAYER:**

**COMPUTER:**



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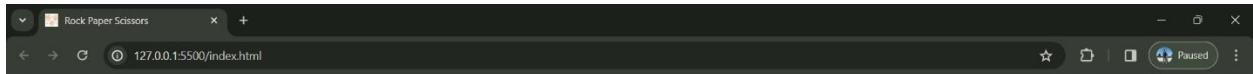
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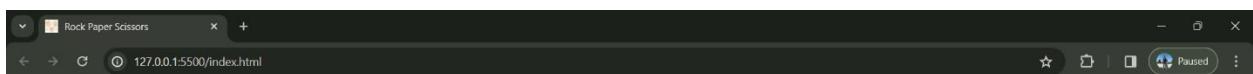
**Rock-Paper-Scissors Game**



**Player: rock**

**Computer: rock**

**Opps it's a tied!**



**Rock-Paper-Scissors Game**



**Player: paper**

**Computer: rock**

**You Win!**



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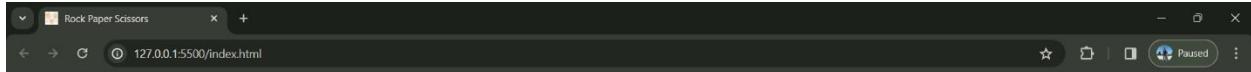
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**Rock-Paper-Scissors Game**



**Player: scissors**

**Computer: rock**

**You Lose!**



**Dictionary:**

**Math.floor():** - I used this method to round a number down to the nearest integer.

**Syntax:** Math.floor(Math.random() \* 3);

**Parameters:** Math.random(): Generates a random floating-point number between 0 (inclusive) and 1 (exclusive).

\* 3: Multiplies the random number by 3, effectively generating a random number from 0 to 2.

**textContent:** - I used this property to get or set the text content of an HTML element on the HTML file.

**Syntax:** player.textContent = `Player: \${playerSelector}`;

computer.textContent = `Computer: \${compChoice}`;

resultElement.textContent = resultMessage;

**Parameters:** \${playerSelector} , \${compChoice} , \${resultMessage}: Insert the value of the playerSelector , compChoice , and resultMessage variable into the string.

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**{} – This tag on the `textContent` I used to show the value of `playerSelector` into a string on output `Player`:**

**Syntax:** `Player: \${playerSelector}`;

**style.color:** - I used `style.color` to set the color of the text content within an HTML element.

**Syntax:** `resultElement.style.color = (resultMessage === "You Win!") ? "green" : "red";`

**Parameters:** `(resultMessage === "You Win!") ? "green" : "red"`: Ternary operator that sets the color to green if the result message is "You Win!", otherwise sets it to red.

**const** - I used this keyword to declare a constant variable such as the selector.

**Syntax:** `const selector = ["rock", "paper", "scissors"];`

**Parameters:** `selector`: The constant array holding the choices "rock", "paper", and "scissors" for the game.