

BCSE203E-Web Programming

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Problem 1

Implement the classic children's game Rock-paper-scissors. Each player in the game chooses one of rock, paper or scissors, without knowing the other player's choice. The winner is decided by a set of rules:

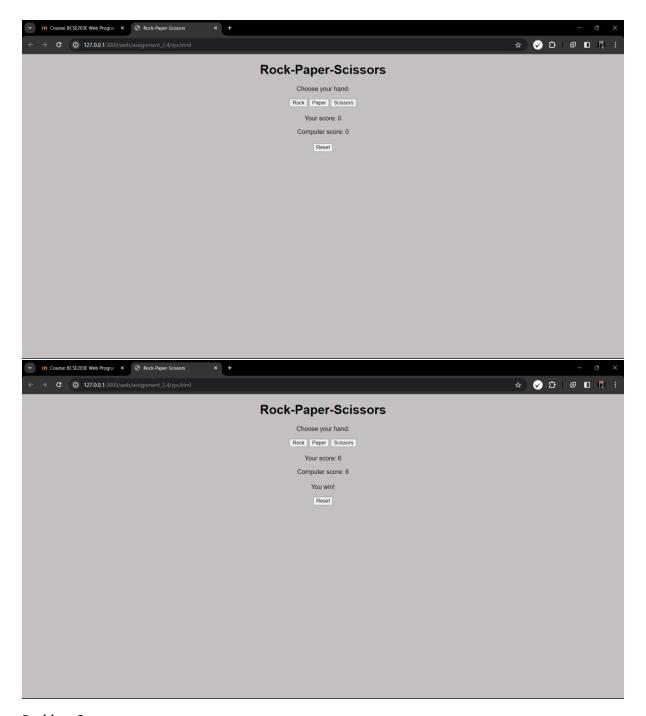
- Rock beats scissors
- Scissors beat paper
- Paper beats rock

If all the players choose the same thing, there is no winner for that round. Design a webpage for the game. One of the players is the computer which chooses rock /paper /scissors at random and other players can be users or computer. When the user opts to see the result, display the winner and the score for each player.

CODE:

```
</style>
</head>
    <h1>Rock-Paper-Scissors</h1>
    Choose your hand:
    <button onclick="playGame('rock')">Rock</button>
    <button onclick="playGame('paper')">Paper</button>
    <button onclick="playGame('scissors')">Scissors</button>
    <div class="score">
        Your score: <span id="userScore">0</span>
        Computer score: <span id="computerScore">0</span>
    </div>
    <div class="result">
        </div>
    <button onclick="resetGame()">Reset</button>
    <script>
        function getComputerChoice() {
            const choices = ['rock', 'paper', 'scissors'];
            const randomIndex = Math.floor(Math.random() * choices.length);
           return choices[randomIndex];
        function determineWinner(userChoice, computerChoice) {
            if (userChoice === computerChoice) {
               return 'It\'s a tie!';
                (userChoice === 'rock' && computerChoice === 'scissors') ||
                (userChoice === 'paper' && computerChoice === 'rock') ||
               (userChoice === 'scissors' && computerChoice === 'paper')
               return 'You win!';
           } else {
               return 'You lose.';
        function updateScore(winner) {
            const userScoreElement = document.getElementById('userScore');
            const computerScoreElement =
document.getElementById('computerScore');
           if (winner === 'You win!') {
               userScoreElement.textContent =
parseInt(userScoreElement.textContent) + 1;
           } else if (winner === 'You lose.') {
```

OUTPUT:



Problem 2

Design a webpage for International Yoga Day and include the following using Javascript. • Adding a Content Slider to Your Site.

- Hiding and unhiding.
- Random password generation.
- Dynamic display of form data. (Use the existing event registration form) Bill generation

Туре	Discount
Employees	25% for employees under govt sector
Student	50% for students

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>International Yoga Day</title>
<style>
    font-family: Arial, sans-serif;
    text-align: center;
            background-color: #c4c0c0;
            max-width: 500px;
            margin: 0 auto;
   max-width: 800px;
   margin: auto;
   padding: 20px;
  .hidden {
    display: none;
  .slider {
   width: 100%;
   overflow: hidden;
  .slides {
    display: flex;
  .slide {
   min-width: 100%;
    transition: all 0.5s;
   padding: 10px 20px;
   margin: 10px;
   cursor: pointer;
</style>
</head>
<div class="container">
 <h1>International Yoga Day</h1>
  <div id="slider" class="slider">
    <div class="slides">
     <div class="slide"><img src="yoga1.jpeg" alt="Yoga Pose 1"></div>
```

```
<div class="slide"><img src="yoga2.jpeg" alt="Yoga Pose 2"></div>
      <div class="slide"><img src="yoga3.jpeg" alt="Yoga Pose 3"></div>
    </div>
  </div>
  <button onclick="prevSlide()">Previous</button>
  <button onclick="nextSlide()">Next</button>
  <h2 onclick="toggleVisibility('discountSection')">Click to Show/Hide
Discounts</h2>
  <div id="discountSection" class="hidden">
   25% discount for government employees
   >50% discount for students
 </div>
  <button onclick="generatePassword()">Generate Random Password</button>
  <form id="registrationForm">
   <input type="text" id="name" placeholder="Name">
   <input type="email" id="email" placeholder="Email">
   <button type="button" onclick="displayFormData()">Submit</button>
  </form>
  <div id="formDataDisplay" class="hidden"></div>
  <h3>Bill Generation</h3>
  Enter the original bill amount:
  <input type="number" id="billAmount" placeholder="Bill Amount">
  Select the customer type:
 <select id="customerType">
   <option value="none">Select Type</option>
   <option value="employee">Government Employee</option>
   <option value="student">Student</option>
  </select>
 <button onclick="generateBill()">Generate Bill</button>
 <div id="bill"></div>
</div>
<script>
 let slideIndex = 0;
 function showSlide(index) {
   const slides = document.querySelectorAll('.slide');
   if (index >= slides.length) slideIndex = 0;
   if (index < 0) slideIndex = slides.length - 1;</pre>
   for (let slide of slides) {
     slide.style.display = 'none';
    slides[slideIndex].style.display = 'block';
```

```
function nextSlide() {
    showSlide(++slideIndex);
  function prevSlide() {
    showSlide(--slideIndex);
  showSlide(slideIndex);
  function toggleVisibility(elementId) {
    const element = document.getElementById(elementId);
    element.classList.toggle('hidden');
  function generatePassword() {
    const chars =
 0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ';
    let passwordLength = 8;
    let password = '';
    for (let i = 0; i < passwordLength; i++) {</pre>
      let randomNumber = Math.floor(Math.random() * chars.length);
      password += chars.substring(randomNumber, randomNumber +1);
    document.getElementById('password').textContent = password;
  function displayFormData() {
    const name = document.getElementById('name').value;
    const email = document.getElementById('email').value;
    const formDataDisplay = document.getElementById('formDataDisplay');
    formDataDisplay.innerHTML = `Name: ${name}<br>Email: ${email}`;
    formDataDisplay.classList.remove('hidden');
  function generateBill() {
    const billAmount =
parseFloat(document.getElementById('billAmount').value);
    const customerType = document.getElementById('customerType').value;
    let finalAmount = billAmount;
    if (customerType === 'employee') {
      finalAmount *= 0.75;
    } else if (customerType === 'student') {
      finalAmount *= 0.5;
    document.getElementById('bill').innerHTML = `Original Amount:
${billAmount.toFixed(2)}<br>Final Amount after Discount:
${finalAmount.toFixed(2)}`;
```

```
}
</script>
</body>
</html>
```

OUTPUT:

