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Assignment 2.2

CSD402 Java for Programmers

Code:

// Joel Atkinson August 21, 2025  
// CSD 402 Java for Programmers  
// Purpose of this assignment is to create a system using random generation that plays rock, paper, scissors with user  
  
  
import java.util.Random;  
import java.util.Scanner;  
  
public class RockPaperScissors {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
 int playAgain = 0;  
  
 do {  
  
 Random random = new Random();  
 int computerChoice = random.nextInt(3) + 1;  
  
 System.*out*.print("Please enter the number that reflects your choice. 1 (Rock), 2 (Paper), or 3 (Scissors): ");  
 int userChoice = scanner.nextInt();  
  
 String computerPick = (computerChoice == 1) ? "Rock" : (computerChoice == 2) ? "Paper" : "Scissors";  
 String userPick = (userChoice == 1) ? "Rock" : (userChoice == 2) ? "Paper" : "Scissors";  
  
 String result;  
 if (computerChoice == userChoice) {  
 result = "It's a tie! Please play again.";  
 } else if ((computerChoice == 1 && userChoice == 3) ||  
 (computerChoice == 2 && userChoice == 1) ||  
 (computerChoice == 3 && userChoice == 2)) {  
 result = "You lost this round. Please play again!";  
 } else {  
 result = "Congratulations, You won!";  
 }  
  
 System.*out*.println("Computer chose: " + computerPick);  
 System.*out*.println("You chose: " + userPick);  
 System.*out*.println("Result: " + result);  
  
 boolean validInput = false;  
 while (!validInput) {  
 System.*out*.print("Would you like to play again? (1 = Yes, 2 = No): ");  
 if (scanner.hasNextInt()) {  
 playAgain = scanner.nextInt();  
 if (playAgain == 1 || playAgain == 2) {  
 validInput = true;  
 } else {  
 System.*out*.println("Invalid entry. Please enter 1 to play again or 2 to exit");  
 }  
 } else {  
 System.*out*.println("Invalid entry. Please enter 1 to play again or 2 to exit");  
 scanner.next();  
 }  
 }  
  
 } while (playAgain == 1);  
  
 scanner.close();  
 System.*out*.println("Thanks for playing!");  
  
 }  
}

Screenshot of RockPaperScissors.java running without error:

A screenshot of a computer

AI-generated content may be incorrect.