Codsoft Internship

Python Programming

Task 3 - To Create a Rock Paper Scissors Game

Python Code:

```
import random
def get user choice():
  choices = ["rock", "paper", "scissors"]
    user choice = input("Enter your choice (rock, paper, or scissors): ").lower()
    if user choice in choices:
      return user choice
      print("Invalid choice. Please choose 'rock', 'paper', or 'scissors'.")
def get computer choice():
  choices = ["rock", "paper", "scissors"]
  return random.choice(choices)
def determine winner(user choice, computer choice):
  if user choice == computer choice:
    return "tie"
  elif (user_choice == "rock" and computer_choice == "scissors") or \
    (user choice == "scissors" and computer choice == "paper") or \
    (user choice == "paper" and computer choice == "rock"):
    return "user"
    return "computer"
def display result(user choice, computer choice, winner):
  print(f"\nYou chose: {user choice}")
  print(f"Computer choice}")
  if winner == "tie":
    print("It's a tie!")
  elif winner == "user":
    print("You win!")
  else:
    print("You lose!")
def play_game():
  user score = 0
  computer score = 0
  while True:
    user choice = get user choice()
    computer choice = get computer choice()
    winner = determine winner(user choice, computer choice)
```

```
display_result(user_choice, computer_choice, winner)

if winner == "user":
    user_score += 1

elif winner == "computer":
    computer_score += 1

print(f"\nScores -> You: {user_score} | Computer: {computer_score}\n")

play_again = input("Do you want to play again? (yes or no): ").lower()
    if play_again != "yes":
        break

print("\nThanks for playing! Final scores:")
print(f"You: {user_score}")
print(f"Computer: {computer_score}")

if _name_ == "_main_":
    print("Welcome to Rock-Paper-Scissors!")
play_game()
```

Output:

```
Output
                                                                               Clear
Welcome to Rock-Paper-Scissors!
Enter your choice (rock, paper, or scissors): paper
You chose: paper
Computer chose: rock
You win!
Scores -> You: 1 | Computer: 0
Do you want to play again? (yes or no): yes
Enter your choice (rock, paper, or scissors): scissors
You chose: scissors
Computer chose: rock
You lose!
Scores -> You: 1 | Computer: 1
Do you want to play again? (yes or no):
Thanks for playing! Final scores:
You: 1
Computer: 1
=== Code Execution Successful ===
```