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import random

print("Winning Rules of the Rock paper scissor game as follows: \n"
      + "Rock vs paper->paper wins \n"
      + "Rock vs scissor->Rock wins \n"
      + "paper vs scissor->scissor wins \n")

result=""

while True:
    print("Enter choice \n 1 for Rock, \n 2 for paper, and \n 3 for scissor\n")

    choice = int(input("User turn: "))
    while choice > 3 or choice < 1:
        choice = int(input("enter valid input: "))

    if choice == 1:
        choice_name = 'Rock'
    elif choice == 2:
        choice_name = 'paper'
    else:
        choice_name = 'scissor'

    print("user choice is: " + choice_name)
    print("\nNow its computer turn.....")

    comp_choice = random.randint(1, 3)

    while comp_choice == choice:
        comp_choice = random.randint(1, 3)

    if comp_choice == 1:
        comp_choice_name = 'Rock'
    elif comp_choice == 2:
        comp_choice_name = 'paper'
    else:
        comp_choice_name = 'scissor'

    print("Computer choice is: " + comp_choice_name)

    print(choice_name + " V/s " + comp_choice_name)

    if choice == comp_choice:
        print("Draw=> ", end="")
        result = "Draw"

    if ((choice == 1 and comp_choice == 2) or
        (choice == 2 and comp_choice == 1)):
        print("paper wins => ", end="")
        result = "paper"

    elif ((choice == 1 and comp_choice == 3) or
          (choice == 3 and comp_choice == 1)):
        print("Rock wins => ", end="")
        result = "Rock"
    else:
        print("scissor wins => ", end="")

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        result = "scissor"

    if result == "Draw":
        print("<== Its a tie ==>")
    if result == choice_name:
        print("<== User wins ==>")
    else:
        print("<== Computer wins ==>")

    print("Do you want to play again? (Y/N)")
    ans = input().lower()

    if ans == 'n':
        break

print("\nThanks for playing")
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