import random

# Print multiline instruction

print('Winning rules of the game ROCK PAPER SCISSORS are:\n'

+ "Rock vs Paper -> Paper wins \n"

+ "Rock vs Scissors -> Rock wins \n"

+ "Paper vs Scissors -> Scissors wins \n")

while True:

print("Enter your choice \n 1 - Rock \n 2 - Paper \n 3 - Scissors \n")

# Take the input from user

choice = int(input("Enter your choice: "))

# Looping until user enters valid input

while choice > 3 or choice < 1:

choice = int(input('Enter a valid choice please ☺: '))

# Initialize value of choice\_name variable corresponding to the choice value

if choice == 1:

choice\_name = 'Rock'

elif choice == 2:

choice\_name = 'Paper'

else:

choice\_name = 'Scissors'

# Print user choice

print('User choice is:', choice\_name)

print("Now it's Computer's Turn...")

# Computer chooses randomly any number among 1, 2, and 3

comp\_choice = random.randint(1, 3)

# Initialize value of comp\_choice\_name variable corresponding to the choice value

if comp\_choice == 1:

comp\_choice\_name = 'Rock'

elif comp\_choice == 2:

comp\_choice\_name = 'Paper'

else:

comp\_choice\_name = 'Scissors'

print("Computer choice is:", comp\_choice\_name)

print(choice\_name, 'vs', comp\_choice\_name)

# Determine the winner

if choice == comp\_choice:

result = "DRAW"

elif (choice == 1 and comp\_choice == 2) or (comp\_choice == 1 and choice == 2):

result = 'Paper'

elif (choice == 1 and comp\_choice == 3) or (comp\_choice == 1 and choice == 3):

result = 'Rock'

elif (choice == 2 and comp\_choice == 3) or (comp\_choice == 2 and choice == 3):

result = 'Scissors'

# Print the result

if result == "DRAW":

print("<== It's a tie! ==>")

elif result == choice\_name:

print("<== User wins! ==>")

else:

print("<== Computer wins! ==>")

# Ask if the user wants to play again

print("Do you want to play again? (Y/N)")

ans = input().lower()

if ans == 'n':

break

# After coming out of the while loop, print thanks for playing

print("Thanks for playing!")

**OUTPUT ::**

**Winning rules of the game ROCK PAPER SCISSORS are:**

**Rock vs Paper -> Paper wins**

**Rock vs Scissors -> Rock wins**

**Paper vs Scissors -> Scissors wins**

**Enter your choice**

**1 - Rock**

**2 - Paper**

**3 - Scissors**

**Enter your choice: 1**

**User choice is: Rock**

**Now it's Computer's Turn...**

**Computer choice is: Paper**

**Rock vs Paper**

**<== Computer wins! ==>**

**Do you want to play again? (Y/N)**

**y**

**Enter your choice**

**1 - Rock**

**2 - Paper**

**3 - Scissors**

**Enter your choice: 2**

**User choice is: Paper**

**Now it's Computer's Turn...**

**Computer choice is: Paper**

**Paper vs Paper**

**<== It's a tie! ==>**

**Do you want to play again? (Y/N)**

**n**

**Thanks for playing!**