```
Script started on 2023-10-28 16:02:10-05:00 [TERM="xterm-256color" TTY="/dev/pts/0" COLUMNS="233" LINES="77"]
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/OLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/OLA[00m$ ls
 game.py [0m[01;34m'0LA 1'[0m ola104.log [01;34m'0LA 2'[0m [01;34m'0LA 3'[0m [01;34m'0LA 4'[0m
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/OLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/OLA[00m$ cat -n game.py
[?20041
    1
        #Tyler Sabin
        #0ctober 28, 2023
    2
    3
        #Section 006
    4
        #This program will allow a user to play multiple R/P/S with a computer until the user no longer wishes to play
    6 import random as rn
    7
    8
        def main():
    9
            print(intro(), "\n\n")
    10
            play_game()
    11
            print(keep_going())
    12
    13
        #Give a brief intro of the game
    14 def intro():
    15
            return 'You will play Rock, Paper, Scissors with the Computer'
    16
    17
        #Generate a random number for the cpu's choice
    18
        def get comp choice():
            choiceCMP = rn.randint(1,3)
    19
    20
            return choiceCMP
    21
    22 #ask the user to input a choice, will require to enter another choice until the requirements are met
    23
        def get user choice():
            choiceUser = (input("rock, paper, or scissors? "))
while choiceUser != "rock" and choiceUser != "paper" and choiceUser != "scissors":
    24
    25
    26
                print("Invalid input")
    27
                choiceUser = input("rock, paper, or scissors?")
    28
            return choiceUser
    29
    30 #Accept a string input and convert it to an int
    31
        def choice_to_num(choice):
    32
            if choice == "rock":
    33
                return 1
            elif choice == "paper":
    35
                return 2
    36
            else:
    37
                return 3
    39 #Accept an int input and convert it to a string
    40
        def num to choice(num):
            if num == 1:
    41
    42
                return 'rock
    43
            elif num == 2:
    44
                return 'paper'
    45
            else:
    46
                return 'scissors'
    47
    48
        #Display the choices using the num_to_choice function
    49
        def display choices(choices int):
    50
            choicesInt = num to choice(choices int)
    51
            return choicesInt
    52
    53 #Determine who won the game User/CPU
    54
        def who won(computer,user):
    55
            if computer == 1 and user == 2 or computer == 2 and user == 3 or user == 1 and computer == 3:
                return 'You won'
    56
    57
            elif computer == 1 and user == 3 or computer == 3 and user == 2 or user == 1 and computer == 2:
    58
                return 'I won'
    59
            else:
    60
                return 'It\'s a tie'
    61
    62
        #Call all functions to have the game properly function in logical order
    63
        def play game():
    64
            userChoiceStr = get_user_choice()
    65
            userInt = choice_to_num(userChoiceStr)
    66
            computerChoiceInt = get_comp_choice()
    67
            print('I chose', display_choices(computerChoiceInt))
            print('You chose', display choices(userInt))
    68
    69
            print(who won(computerChoiceInt, userInt), "\n\n")
    70
    71
        #Determine if the user would like to continue playing or not
    72
        def keep going():
    73
            answer = input("Do you want to play another game? y/n ")
    74
            while answer != 'n':
    75
                play game()
    76
                answer = input("Do you want to play another game? y/n ")
            return 'Good bye'
```

78
79 main()[?2004h(base)]0;jovyan@jupyter-tes4j: ~/OLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/OLA[00m\$ python3.[K.10 game.py
[?2004l
You will play Rock, Paper, Scissors with the Computer

rock, paper, or scissors? rock
I chose paper
You chose rock
I won

Do you want to play another game? y/n y
rock, paper, or scissors? paper
I chose scissors
You chose paper

Do you want to play another game? y/n y rock, paper, or scissors? scissors I chose rock
You chose scissors
I won

I won

Do you want to play another game? y/n y rock, paper, or scissors? sfdas
Invalid input
rock, paper, or scissors?rock
I chose paper
You chose rock
I won

Do you want to play another game? y/n n Good bye [?2004h(base)]0;jovyan@jupyter-tes4j: ~/OLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/OLA[00m\$ exit [?2004l exit

Script done on 2023-10-28 16:03:31-05:00 [COMMAND_EXIT_CODE="0"]