

# ROCK PAPER SCISSOR USING PYTHON

## SOURCE CODE :

```
Import random
```

```
#DEFAULT;
```

```
My_dict={'R':"Rock",'P':"Paper",'S':"Scissors"}
```

```
User_count=0
```

```
Comp_count=0
```

```
#INPUT;
```

```
Games=int(input("\nEnter the number of games you want to play: "))
```

```
While(comp_count+user_count<games):
```

```
    #WHILE LOOP STARTS;
```

```
    Flag=0
```

```
    User_input=input("\nUser's Input: ")[0]
```

```
    User_input=User_input.upper()
```

```
    #The [0] after the input() will assign the first character of input to the variable;
```

```
    #Hence, the user can enter anything, anyway;
```

```
    #Example: The user can enter Rock or rock or r or R or ro or any such thing which  
    represents Rock;
```

#It will always take input as a R

#Thereby, increasing the user input window;

For I in my\_dict.keys():

    If(user\_input==i):                    #If the entered input is confined to Rock, Paper  
or Scissors;

        Flag=1

        Break

    If(flag!=1):                            #If not, run the loop again;

        Print("INVALID INPUT")

        Continue

    Comp\_input=random.choice(list(my\_dict.keys()))            #Random Key from the  
dictionary my\_dict i.e. R,P or S;

    Print("Computer's Input: ", my\_dict[comp\_input])

    If ( user\_input=='R' and comp\_input=='P' ) or ( user\_input=='P' and comp\_input=='S'  
) or ( user\_input=='S' and comp\_input=='R' ):

        Comp\_count=comp\_count+1

    Elif ( user\_input=='P' and comp\_input=='R' ) or ( user\_input=='S' and  
comp\_input=='P' ) or ( user\_input=='R' and comp\_input=='S' ):

        User\_count=user\_count+1

    Else:

        Print("TIE")

Print("\nSCORE:")

Print("User Score:",user\_count,"\tComputer Score:",comp\_count,"\n")

```
#LOOP ENDS;

Print("\n\t\tFINAL SCORE:")
Print("User Score:",user_count,"\t\t\tComputer Score:",comp_count,"\n")
If user_count>comp_count:
    Print("\n\tCONGRATULATIONS! YOU WON!")
Elif user_count<comp_count:
    Print("\n\t\tSORRY! YOU LOST!")
Else:
    Print("\n\t\tOOPS! IT'S A TIE!")

#END;
```

OUTPUT:

## Output

Enter the number of games you want to play: 2

User's Input: R

Computer's Input: Scissors

SCORE:

User Score: 1    Computer Score: 0

User's Input: S

Computer's Input: Paper

SCORE:

User Score: 2    Computer Score: 0

FINAL SCORE:

User Score: 2                      Computer Score: 0

CONGRATULATIONS! YOU WON!

=== Code Execution Successful ===