

# Game of Stone, Paper and Scissors using Python

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In [4]: #import random for generating computer choice.  
import random
```

```
In [5]: #list containing options  
options = ['Stone','Paper','Scissors','ERROR']
```

```
In [6]: #USER INPUT  
def user_input():  
    print('''0. Stone  
1. Paper  
2. Scissors ''');  
    x = int(input('Enter your choice: '))  
    if x == 0:  
        user = options[0]  
    elif x ==1:  
        user = options[1]  
    elif x == 2:  
        user = options[2]  
    else:  
        user = options[3]  
    return user
```

```
In [7]: #COMPUTER - PC INPUT  
def pc_input():  
    y = random.randint(0,2)  
    if y == 0:  
        pc = options[0]  
    elif y ==1:  
        pc = options[1]  
    elif y == 2:  
        pc = options[2]  
    return pc
```

```
In [8]: #PLAY GAME FUNCTION
def play(u,p):
    flag=True
    while(flag != False):
        a = user_input()
        b = pc_input()
        if (a == b):
            print("User: ",a,"PC: ",b)
            print("MATCH TIE\n")
        elif (a=="Paper"):
            if(b=="Stone"):
                print("User: ",a,"PC: ",b)
                print("YOU WON!\n")
                u=u+1
            elif(b=="Scissors"):
                print("User: ",a,"PC: ",b)
                print("YOU LOSE!\n")
                p=p+1
        elif (a=="Stone"):
            if(b=="Paper"):
                print("User: ",a,"PC: ",b)
                print("YOU LOSE!\n")
                p=p+1
            elif(b=="Scissors"):
                print("User: ",a,"PC: ",b)
                print("YOU WON!\n")
                u=u+1
        elif (a=="Scissors"):
            if(b=="Paper"):
                print("User: ",a,"PC: ",b)
                print("YOU WON!\n")
                u=u+1
            elif(b=="Stone"):
                print("User: ",a,"PC: ",b)
                print("YOU LOSE!\n")
                p=p+1
        res=input("Want to play again ? (y/n): ")
        if res == "y":
            flag = True
        else:
            flag = False
    return u,p
```

```
In [9]: ## call play with arguments (0,0)
        #intinally score of both the players is ZERO
        score=play(0,0)
        print("Result: ")
        print("User - PC:",score[0],"-",score[1])
```

0. Stone

1. Paper

2. Scissors

Enter your choice: 0

User: Stone PC: Stone

MATCH TIE

Want to play again ? (y/n): y

0. Stone

1. Paper

2. Scissors

Enter your choice: 1

User: Paper PC: Scissors

YOU LOSE!

Want to play again ? (y/n): y

0. Stone

1. Paper

2. Scissors

Enter your choice: 2

User: Scissors PC: Paper

YOU WON!

Want to play again ? (y/n): y

0. Stone

1. Paper

2. Scissors

Enter your choice: 0

User: Stone PC: Scissors

YOU WON!

Want to play again ? (y/n): n

Result:

User - PC: 2 - 1