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Rock Paper Scissors Solutions

Exercise 8

Make a two-player Rock-Paper-Scissors game. (*Hint: Ask for player plays (using input)*, compare them, print out a message of congratulations to the winner, and ask if the players want to start a new game)

Remember the rules:

- Rock beats scissors
- Scissors beats paper
- Paper beats rock

Sample solution

```
import sys
    user1 = input("What's your name?")
    user2 = input("And your name?")
    user1_answer = input("%s, do yo want to choose rock, paper or scissors?" % user1)
    user2_answer = input("%s, do you want to choose rock, paper or scissors?" % user2)
8
    def compare(u1, u2):
        if u1 == u2:
9
            return("It's a tie!")
        elif u1 == 'rock':
            if u2 == 'scissors':
                 return("Rock wins!")
            else:
                 return("Paper wins!")
        elif u1 == 'scissors':
            if u2 == 'paper':
18
                 return("Scissors win!")
                 return("Rock wins!")
        elif u1 == 'paper':
```

```
if u2 == 'rock':
    return("Paper wins!")

else:
    return("Scissors win!")

else:

return("Invalid input! You have not entered rock, paper or scissors, try again.
sys.exit()

print(compare(user1_answer, user2_answer))

rockpaperscissors.py hosted with by GitHub view raw
```

Another sample solution uses a clever way of checking the winner:

```
print('''Please pick one:
                 rock
                 scissors
                 paper''')
4
    while True:
6
7
         game_dict = {'rock': 1, 'scissors': 2, 'paper': 3}
         player_a = str(input("Player a: "))
8
         player_b = str(input("Player b: "))
         a = game_dict.get(player_a)
         b = game_dict.get(player_b)
         dif = a - b
13
         if dif in [-1, 2]:
14
             print('player a wins.')
             if str(input('Do you want to play another game, yes or no?\n')) == 'yes':
                 continue
18
             else:
                 print('game over.')
                 break
         elif dif in [-2, 1]:
21
             print('player b wins.')
             if str(input('Do you want to play another game, yes or no?\n')) == 'yes':
                 continue
             else:
                 print('game over.')
                 break
28
         else:
             print('Draw.Please continue.')
             print('')
rock, paper, scissors game hosted with by GitHub
                                                                                     view raw
```

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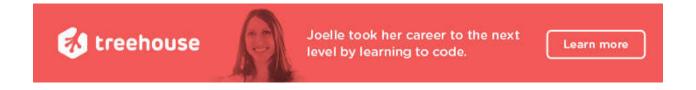




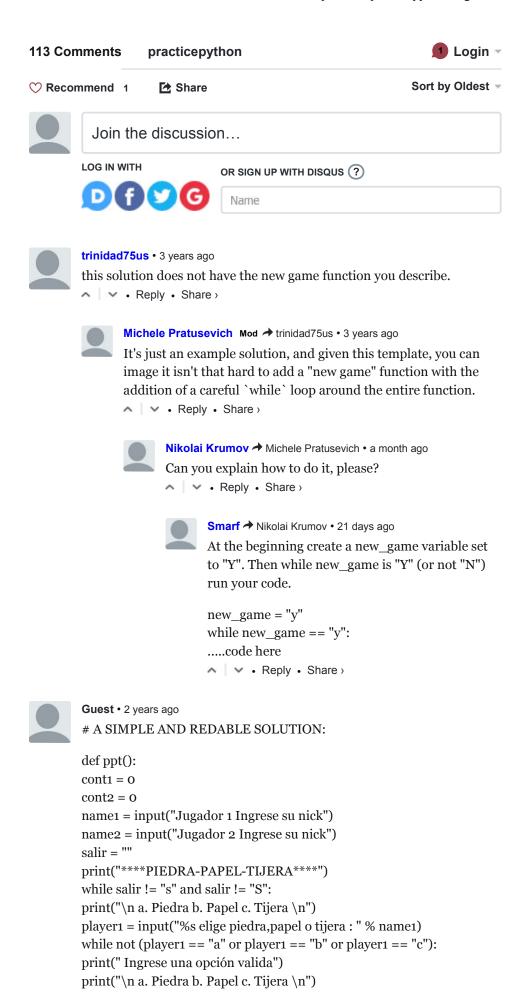




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