```
1
    #Conditionals Challenge 20: Rock, Paper, Scissors App
 2
    import random
 3
    print("Welcome to a game of Rock, Paper, Scissors")
 4
 6
    #Get user input
     rounds = int(input("\nHow many rounds would you like to play: "))
 7
 9
    #Initialize variables
10
    moves = ['rock', 'paper', 'scissors']
11
    p score = 0
12
    c_score = 0
13
14
    #The main game loop
    for game round in range(rounds):
15
16
         #Print the main game screen and get user input
         print("\nRound " + str(game round + 1))
17
         print("Player: " + str(p_score) + "\tComputer: " + str(c_score))
18
19
20
         #Get the computers move
21
         c_{index} = random.randint(0,2)
22
         c_choice = moves[c_index]
23
24
         #Get the players move
25
         p_choice = input("Time to pick...rock, paper, scissors: ").lower().strip()
26
27
         #If the player makes a valid move
28
         if p_choice in moves:
             print("\tComputer: " + c_choice)
29
             print("\tPlayer: " + p_choice)
30
             #Computer chooses rock
31
32
             if p_choice == 'rock' and c_choice == 'rock':
                 winner = 'tie'
33
                 phrase = 'It is a tie, how boring!'
34
35
             elif p choice == 'paper' and c choice == 'rock':
                 winner = 'player'
36
                 phrase = 'Paper covers rock!'
37
38
             elif p choice == 'scissors' and c choice == 'rock':
39
                 winner = 'computer'
                 phrase = 'Rock smashes scissors!'
40
41
             #Computer chooses paper
             elif p_choice == 'rock' and c_choice == 'paper':
42
43
                 winner = 'computer'
                 phrase = 'Paper covers rock!'
44
45
             elif p choice == 'paper' and c choice == 'paper':
                 winner = 'tie'
46
                 phrase = 'It is a tie, how boring!'
47
             elif p choice == 'scissors' and c choice == 'paper':
48
                 winner = 'player'
49
                 phrase = 'Scissors cut paper!'
50
51
             #Computer chooses scissors
             elif p_choice == 'rock' and c_choice == 'scissors':
52
53
                 winner = 'player'
54
                 phrase = 'Rock smashes scissors!'
55
             elif p_choice == 'paper' and c_choice == 'scissors':
                 winner = 'computer'
56
                 phrase = 'Scissors cut paper!'
57
58
             elif p_choice == 'scissors' and c_choice == 'scissors':
59
                 winner = 'tie'
                 phrase = 'It is a tie, how boring!'
60
             #Catch for any other conditions
61
62
                 print("Round winner not calculated.")
63
64
                 winner = 'tie'
```

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65
                 phrase = 'It is a tie, how boring!'
66
             #Display round results
print("\t" + phrase)
67
68
69
             if winner == 'player':
                 print("\tYou win round " + str(game round + 1) + ".")
70
71
                 p score += 1
             elif winner == 'computer':
72
                 print("\tComputer wins round " + str(game_round + 1) + ".")
73
74
                 c_score += 1
             else:
75
                 print("\tThis round was a tie.")
76
77
         #Else the player did not make a valid move
78
79
         else:
             print("That is not a valid game option!")
80
             print("Computer gets the point!")
81
82
             c_score += 1
83
    #Game has ended, print results
84
    print("\nFinal Game Results")
85
    print("\tRounds Played: " + str(rounds))
86
    print("\tPlayer Score: " + str(p_score))
87
    print("\tComputer Score: " + str(c_score))
88
89
    if p_score > c_score:
         print("\tWinner: PLAYER!!!")
90
    elif c_score > p_score:
91
92
         print("\tWinner: Computer :-(")
93
    else:
         print("\tThe game was a tie.")
94
```