

Python Projects > Rock, Paper and Scissor Game.py > ...

```
1  ''' Rock, Paper and Scissor Game (Python)
2  |    Chaitanya Mangla '''
3
4  ''' Rules of the game:
5  |    1. Rock breaks scissor (rock > scissor)
6  |    2. Scissor cuts paper (scissor > paper)
7  |    3. Paper folds rock (paper > rock)
8  |    '''
9
10
11  ''' 1 for rock
12  |    -1 for paper
13  |    0 for scissor
14  |    '''
15  import random # Import random library to allow computer operating system for making choices
16
17  computer = random.choice([-1,0,1])
18  youstr = input ("Enter your choice ")
19  youDict = {"r": 1, "p" : -1, "s" : 0}
20  reverseDict = {1: "Rock", -1: "Paper" , 0: "Scissor"}
21  you = youDict[youstr]
22
23  # Here, we have 2 number variables, you and computer
24
25  print(f"You chose {reverseDict[you]}\nComputer chose {reverseDict[computer]}")
26
27  if (computer == you):
28  |    print("Its a tie")
29
30  else: # This is a perfect example of nested if else statement
31  |    if(computer == -1 and you == 0):
32  |    |    print("You Win\nCongratulations!!")
33
34  |    elif(computer == -1 and you == 1):
35  |    |    print("You Lose\nBetter Luck next time!!")
36
```

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2. Scissor cuts paper (scissor > paper)
3. Paper folds rock (paper > rock)
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-1 for paper
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computer = random.choice([-1,0,1])
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# Here, we have 2 number variables, you and computer

print(f"You chose {reverseDict[you]}\nComputer chose {reverseDict[computer]}")

if (computer == you):
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else: # This is a perfect example of nested if else statement
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26
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34     elif(computer == -1 and you == 1):
35         print("You Lose\nBetter Luck next time!!")
36
37     elif(computer == 1 and you == -1):
38         print("You Win\nCongratulations!!")
39
40     elif(computer == 1 and you == 0):
41         print("You Lose\nBetter Luck next time!!")
42
43     elif(computer == 0 and you == 1):
44         print("You Win\nCongratulations!!")
45
46     elif(computer == 0 and you == -1):
47         print("You Lose\nBetter Luck next time!!")
48
49     else:
50         print("Something went wrong")
51
52
```

```
PS D:\Coding\Python Practice> python -u "d:\Coding\Python Projects\Rock,PaperandScissorGame.py"
Enter your choice s
You chose Scissor
Its a tie
PS D:\Coding\Python Practice> python -u "d:\Coding\Python Projects\Rock,PaperandScissorGame.py"
Enter your choice r
You chose Rock
Computer chose Rock
PS D:\Coding\Python Practice> python -u "d:\Coding\Python Projects\Rock,PaperandScissorGame.py"
Enter your choice p
You chose Paper
Computer chose Paper
Its a tie
Enter your choice s
You chose Scissor
Computer chose Rock
You Lose
Better Luck next time!!
PS D:\Coding\Python Practice> python -u "d:\Coding\Python Projects\Rock,PaperandScissorGame.py"
Enter your choice p
You chose Paper
Computer chose Scissor
You Lose
Better Luck next time!!
PS D:\Coding\Python Practice> python -u "d:\Coding\Python Projects\Rock,PaperandScissorGame.py"
Enter your choice r
You chose Rock
Computer chose Scissor
You Win
Congratulations!!
PS D:\Coding\Python Practice> █
```