

ROCK PAPER AND SCISSOR- CHEATING NOT ALLOWED -03

As you know rock paper scissor is a two player game so first of all let me do this assignments for say player one and player two, for player one we have zero as a rock, one as the paper and two as the scissor, similarly for player two we can do the assignments but let to we have zero as the paper, one as the rock and two say as the scissor. Please note that we are using dictionaries here to do the assignments, now we are done with the assignments you can also make the user input this assignments it's your wish completely your wish now we have to make the user input the number and the secret bit position in the number for that i will a while loop by true , first of all let us make the user input num one that is for player one the choice of player one input this is for player one, player one enter your choice for player two will have num two input player two enter your choice, we also have to make the user input the secret bit position for player one we have bit one int input player one enter the secret bit position for player two we have bit two int input player two enter the secret bit position. Please observe that we are using int here for num one and num two we used only input the default input tag in python is string but we want bit one and bit two to be integers so we will type cast it to int next please see that this while loop will run till infinite times we have to restrict this while loop, this while loop should run till the number of times till user wants so will have one more parameter here say ch and will make the user input this parameter will have ch input will say do you want to continue y is for yes, n is for no. If ch here is n then while break out of this while loop break, now we have now we are done with the assignments as well as input of the required parameters so next step is to quote the rules for rock paper scissor i assume that u have watched all the videos and you know the rules of rock paper scissor but still for the record let us revise for rock paper scissor. In rock paper scissor we have three entities one is the rock second one is the paper and third one is the scissor, we have rock paper scissor, paper can cover the rock and rock can crush the scissor and scissor can cut the paper please observe that nothing is one important here everything is equal powerful here so let us try to code for rock paper scissor, for rock paper scissor we will have a function rock paper scissor, will pass num one num two and bit one bit two next step would be calculating two more parameters which can be calculated from num one bit one num two bit two, will calculate p one this is for player one, this is basically $\text{int num one bit one mode three}$ what is p one here? P one basically is the placeholder at bit position bit one in num one and will mode it with three because the numbers that we are input here that we are going to input here are basically decimal numbers but we want answer in zero one two so will do mode three here similarly for player two we have p two in which will have $\text{int num two bit two mode three}$ not that we are done with calculating p one and p two you can code the rules very easily will do if player one p one is equal to is equal to player two p two then this will be a draw, print draw then the next rule else if, if player one p one is equal to is equal to player two rock and player two p two is equal to is equal to say scissor as you know rock can crush the scissor so player two wins here sorry player one wins here, player one wins. Next rule if player one p one is equal to is equal to rock and player two p two is equal to is equal to paper as you know rock can crush the paper cut as you know paper can cover the rock so player two

wins here. Next rule player one p one is equal to is equal to paper and player two p two is equal to is equal to scissor as you know scissor can cut the paper player two wins here, print player two wins else if player one p one is equal to is equal to paper and player two p two is equal to is equal to rock as you know paper can cover the rock so player one wins here print player one wins. Next rule else if player one p one is equal to is equal to scissor and player two p two is equal to is equal to rock as you know rock can crush the scissor so player two wins here print player two wins. Next rule else if player one p one is equal to is equal to scissor and player two p two is equal to is equal to paper as you know scissor can cut the paper so player one wins here print player one wins. So now we are done with coding the rules too we are done with the assignments we are done with the input of required parameters and we are done with coding of rules too, now so now let us call this function here will call rock paper scissor and will pass num one num two bit one and bit two so this is done too let us try to run this programme. There is no end of literal here did let us try to run it again so enter your choice, choice is basically number here i will input a three digit number one two three i will input three digit number here too five six seven say secret bit position for player one zero for player two it is one it is a draw, please observe that here we are input number num one and num two are input in the form as a string so they texting will start from zero and go till number of digits minus one i will repeat then texting will start from zero and go till number of digits minus one ok so we will have to input the secret bit position accordingly now let us look at the output we enter one two three and five six seven and the secret bit positions are zero and one, for player one the secret bit position is zero so it will be one, for player two secret bit position is one it is six, if we mode six mode three then it will be zero, for player one we have one for player two we have zero for player one, one is paper and for player two zero is also paper so it results in a draw, if you want to continue you can type y and if you don't you can type no will have one more example here will do five six seven eight say and two three four let us enter the secret bit position for player one it will be two say and for player two it will be one it again calls for a draw let us have some another example two three four, one six seven eight zero and three it is again draw. One more example seven eight nine, four five six two and one player one wins so you can try it as many number of times as you want. I hope you enjoyed the programming screen cast i hope to see you again in the next programming screen cast thank you, have a nice day.