

LOTTERY SIMULATION: PROFIT OR LOSS 03

Hello guys in the last video you had seen what happens when you try betting on what would appear as a result of a lottery draw we got a lot of losses but we has just run only once right what if we play multiple times there is a possibility that we get lucky and we win a lot of price let us see that so let me assume in the first go if i play this game for one week and here if you see one week is seven days so seven times i have to get the input its slightly time consuming and also irritating on the users and if you think seven times you are entering the input so let me simulate this is just the simulation right so this is we need not accurately do what we do in the real world so let us make it even this as a random integer that is how we have a lucky draw something like that we will have a random pick let me copy this and use the same thing here for betting thing also because every time while giving the input i didn't have anything in my mind so i was just randomly giving some input right so let why do i want to get the input, let me pick something randomly so let me pick random so i will use the same thing so see bet i have random integer and i lucky draw i have something so now i have to print it very clearly initially i just had lucky draw as a random, randomly pick numbers so i had just printed the value but now given that both the values are randomly pick i have to print it properly so let me print it let me say this is my bet turned out to be bet turned out to be this value that is stored in the variable bet and now the lucky draw lucky draw this turned out to be the value stored in this variable lucky underscore draw ok so i will print this too and my account has zero and every time i will check it i will see if my bet and the lucky draw is equivalent if it is equal i win a lot of price otherwise i lose so let me here even here i have to say amount in your account let me say amount in your game account game account is nothing but it is stored in the variable account may be let me maximise this part so that it's very clear ok so i have modified slightly if you could see i will just summarise the modifications so bet i am just choosing random integer which is my bet which is simulating my bet and this is another random integer which simulates the lucky draw that is whatever the organiser is picking from the collections of coupons that is the lucky draw and i will print the values whatever has been randomly picked then i have my account initially it is zero but as you keep playing see because we have to repeat this thing as i have said let us see what happens if we play this game for a week so we have to repeat this thing so if i put zero here account equal to zero here every time account will be initialised to zero and you cannot really see whether you actually win or lose so actually when i putted in the loop this must be out of the loop so let me cut this line from here cut and let me put it here initially my account has nothing the game account has nothing and i start my game here and i pick a bet and the organiser picks a lucky draw and if they are both are equivalent i will win some amount if not i don't win any amount but since i am paying hundred rupees to play this game once i am subtracting hundred in both the cases and at the end of the game i will say this is the amount i have in my account currently so given the this is just seven times we are going to repeat it i said we are going to simulate it over a week alright so week has seven days so let me going to simulate it just for seven days seven times so i can print the amount at every instance but if we increase the number of iterations we may get messy that you print the amount at every instance so that time what you do, what is the final amount after those many number of games have been played we will just print the final one that's it ok so i have to repeat this for some seven times

so let me use a for loop any loop can be used for is slightly convenient for us that's why we are using it in range seven because we want to repeat it seven times and see for loop requires indentation so let me select this entire block so i want this things to be indented so i have indented i have used a tab key i have indented everything so fine so i am repeating this seven times right so my programme is done i will just quickly summarise and we will run and see what happens so initially there is zero in my game account there is nothing in my game account i am doing this i am playing this game for seven days that is for a week i am playing this game each day what i do i bet for one number and the organiser will draw will draw a number randomly from his set of coupons that is what we call as a lucky draw, if my betting and the lucky draw that the organiser has taken if they both are equal i win a prize money if they both are equal i win a prize money otherwise i don't win anything but to play this game i have to pay hundred rupees that is why i am deducting hundred from both the cases and after each game i am printing what is the amount in my game account so this is what the programming is doing i have saved it now let me maximise this portion value will get the output and let me run it run the file see we have got the output maybe i will maximise this pane that will be clearer so let me maximise this pane see initially the bet was three and lucky draw was six so i lost here so my account has minus hundred because i had paid hundred rupees initially and i didn't win anything so i had minus hundred and see next time bet and my lucky draw is equal so i got lucky i got an amount next time i lost so some loss is there next time i had lost so again there is a loss again a loss again a loss again a loss you could see there are some more losses compare to gain but still due to the ratio of the amount we could see there is some profit net profit i have out of the game this is we have just simulated the playing of the game for one week let me just try running again so run again i am getting some amount oh i am getting still more amount i am having more wins again this time i am losing this time i am winning so wins and loss it's all completely random right so anything can happen so this is i have simulated if i play the game for one week next we will see what happens if we play the game for one month we will see that in the next video.