

## GUESS THE MOVIE NAME 06

Alright in the previous video we have seen the various parts of the code we had seen the play method and the various other sub methods it is using so let us just have a very quick recap of it, we had collected the list of movies from the imdb site we had inputted the two players name and we had started off with zero points each, we had different variables like turn and willing as the name suggest it make sure that turn is alternated the game goes when both are willing to play even if one person is not willing to play game comes to an end and to alternate the turns we are making use of this mode operator and during each turn of the person you need to randomly you pick a movie and create a question how question works here, if you could see create question what it does is it splits it to the individual characters it sees if the individual letters it sees if the letters is a space you just keep it as a space some other letter other than space you encode it as star. So this is how question has been created and once question has been created question is displayed to hum and the player is asked to asked to guess the character guess a letter guess a letter that is present in the movie name so he has to guess the letter, once he has given the letter once you first check the letter is present in the movie name or not so to check if it is present in the movie name we are making use of a built in functionality count that will say how many times this letter has occurred in the particular word so movie is our word in that movie how many times this letter has occurred, if it has not at all occurred it will return zero otherwise it will return a non zero positive value so if it is returning a zero you say it is false that is it is not present is present while we are playing is false otherwise it is true so that's how we are returning the false and true values correspondingly and if it is not present you say that this letter is not found if it is present you have to unlock the unlock the letters, so for unlocking what do you do? You do something very similar to that what we are done in create question we open the sting into list of letters you open the string in the list of characters and based on the each character if it is a space or that actual letter which he has wanted to unlock you append that letter into the output string otherwise if it is not unlocked yet so and this is not that letter as well then you have to append star else you have to append letter that has been unlocked till now this is how we have created the output list now we merge the individual characters of the output list into a single string and return that single string so this is how unlocking has been done once unlocking has been done you print the unlock version and based on that the user can take two decisions either he can guess the name of the movie or he can unlock another character if he wants to unlock another character the same process is repeated if he wants to guess the movie name you ask him to answer check if it is correct, if it is correct say that he has said the correct answer and increase his points by one and show him his points and once he has said the correct answer this particular thing of asking for a character unlocking guessing all this come to an end so this is how the movie goes sorry this is how the game goes and this once he had said the answer what should you do is, you should ask him if he wants to continue the game or not if he wants to continue let him play that is then the value of then the if you say he wants to continue then the value of turn is increased by one in order to fascinated the next player to play the game in case he wants to quit then the game totally comes to an end before ending

the game you show the status greet them well and then you end the game this is how the play goes ok before starting it running of the code i would like to just say something here if you would see i have typed as with hint these are all some machine independencies may be some operating system independencies in some cases it may happen that you need to type it as or in some system Linux based system i have used you need to use the function raw input for string and input for the other data types these are some few decencies you can always all ways look it up to what is the problem online and you can fix it please say some independencies on Mac os so i had rectified them this is very trivial just i am type it as string it into if some of you have already familiar with java or heard of java even java works like this takes all input by default as string so we need to convert it into the type whatever we need here we know that the input is either one two something like that its a number so i am typecasting it as a loop so this is just a few independencies so for a Mac this is not independencies for Mac os for Linux os one independencies i observed was it takes two functions raw input and input so you can look it up depends on may be for windows there may be some independencies you can always look it up in case if something doesn't work you can always look it up, you can see as to what is an solution, you have lot of solution available online on stack overflow there are many such sites where people generally post their problems and there are many who help with solutions to all these this purely managed by people it's amazing you get good response there and if you know some answers if you contribute that is different feeling that is different kind of feeling proud feeling you would get i would recommend that you guys be a part of such community where you can interact with your fellow programmers and you gain more knowledge as you would generally would have heard pier knowledge is something that is uncomparable to other types of knowledge, even in your college the study time college or school events you could remember you would have done a group study those memories are something those things are something that as no match for it so it is always the case that clear learning has a very good advantages associated with it so one such clear learning clear learning thing for programming is this thing stack overflow or such online platforms you can always look up to it may be you can try reading through solutions already presenting can gain more knowledge and you can also contribute if you know something there is website for almost everything for hose not from computer science background as well stack exchange has got lot of websites you can see to it may be you would have seen through it already if not also please be a part of such community so where you actively discuss about the current happenings of your field and you stay updated with it so this is i am just telling this so that you guys can be a part of this amazing community where you stay updated with what happenings in your field that's it this thing i had just looked up and i had included it nothing now let's run the program. Ok player one please enter your name ok if he enter let me say abc player two please enter your name let me say xyz ok some characters are there one two three four five six seven eight, eight characters without any spaces so i am not able to guess what is the movie so let me play smartly, it is generally a practice that they you usually unlock vowels you try with all vowels then why this is generally a practice in almost any movie name you see you would have this letter occurrences almost all the time almost all the time so this is general a practice so i will start with a so a is present only once so this is unlocked ok and may be i want to unlock another character i would unlock e, e is not found ok let me unlock i, yeah i is found let me unlock

another character o, o is not found u, u is not found y not found, yeah i guess now i know the movie name let me guess it drishyam correct? We will see your score one which says no i want to continue or quit let me continue alright oh this is the problem we had to make the small rectification then everything will work good, et us do it very quickly see i have not change the name here its p two its player twos turn i had copy pasted i had missed changing the name so let us do it very quickly so this is how it happens actually you run and by then something unexpected comes then you come to know that oh i skipped it, this is how the programming happens so in case you are making mistakes please never get disheartened all these is learning process failures are the stepping stones for success they say this is very much true in case of programming through lot of mistakes only you come to know what ever is the correct way t two i have to change here and yeah somewhere else yeah here i have to change same lines so ok somewhere else i have to change, do i have to change anywhere else no i guess yeah fine alright let me save let me open a new console letter let me open fresh console and let me run it run ok player one abc player two xyz your turn someone two three four five six seven eight, eight characters let me guess a i am lucky that i am probably getting the same movie let me unlock another i get i yeah i got the same movie let me guess now its drishyam correct? So let me continue xyz your turn one two three four five six seven eight all this is probable actually because we are randomly picking a movie that's it so it may be the case that both the players get the same thing this is highly lesser the probability but if you want to make it still the least, you want to decrease the probability that both the people get the same movie name you increase the number of movies in the list that is what just here we have ten movies because we were not interested in scrolling through the imdb list our aim here is to learn the programming part and not to watch movies so i just had to pick some ten movies from imdb maybe if you would pick more movies there were two fifty movies they were displayed there if you would pick some hundred movies two hundred movies this probability that the both people get the same thing is very rare so may be i hope next time i will get some other movie yeah i am getting some other movie so let me say with my letter 'a' these are the things so let me unlock another letter 'e' yeah now i am i guess now i am able to guess the movie see with vowels you are able to guess the movie very quickly taare zameen par so wontedly let me say without spaces i want to check if it will works fine wrong answer! See this not excepting the movie name contains spaces so you have to give spaces it doesn't except the other way perfect! So i have to again say some letter so let me say 'r' even that i know that this is the movie name say 'r' ok so it is unlocked so i have to guess the movie name this time properly with spaces i will give taare zameen par ok yeah abc your score is two and i want to continue xyz one two three four five six seven eight oh this xyz must be very lucky person he is getting the same thing this is this occurs because we have a very less number of movies, if you increase the number of movies in the list you will get a better random a better choices every time yeah fine continue again i am getting the same wow ok oh its some different movie alright see i was saying the same movie again and again and i was thinking this is same movie no this is different movie so i am i don't know the answer what would i do? Ok let me give my same answer it will anyways it's a wrong answer let's see yeah i have to try again with some other letter ok a e i o u y alright now i know the movie now let me write nayakan sorry i should say that i want to guess the movie then i will so ok i will write nayakan perfect! Now i want to quit let me press zero see i am greeted, abc your

scores is this, xyz your score is this and i am greeted alright this is how the program output had appeared and this is how the game was played, you would have seen in that and during the run off the game one thing you would have noticed this sometimes one movie got repeated often some movie may get repeated often this is usually a case even when we play manually right? see suppose assume that you are playing same game for some one hour two hour something like that then sometimes it may happen that you forget that you had all already set the movie name you already asked that as a question and you may pose the same question again it happens, the same thing happens with the computer as well, computer how does it does? It has a list of movies it picks a movie name randomly it's purely a probability so we can never guarantee that you will never get a repetition that is in case for example say the movie dangal if it has been picked i never give you a guarantee that again dangal will never be free so that we can never guarantee in this randomly picking method because for this repetition to occur the probability associated the math behind it and the probability is not zero probability it is not a zero probability there is some minimal probability with which this repetition can occur, it is evidently visible because we have only ten movies in our list, in case if you increase the number of movies if you have some hundred movies in the list this probability of repetition is very very less and you it is not very evident that there is a repetition but there will be repetition the probability of it is non zero so that there may be repetitions may occur there, you can never guarantee that repetitions would never occur so may be for that you can think of some strategies can you think of some other way other than randomly picking from a list can you pick the movies such that repetitions will never occur can you pick the movie from the list from some other method you can brain storm with lot of various methods as well, as well as to implement this, this is not the only way there are many ways by which you can implement the same thing you can come up with the variants in the implementation we have done you can probably make this particular thing we had copy pasted for player one and player two right you can make this particular thing as a sub function and you just make it as a single function or instead of making this many lines so that is your you making this as a single function and reusing the same function when needed you can do that, that is one of the improvisation you can do with this implementation and as good as a lot can be done, this is not the one standard way there are many ways also for the game there are many standard variants may be you can have some constraints like maximum ten guesses if allowed more than you cannot you cannot allow the person to guess something like that you can have constraints and may be you can vary the points based on in which guess he gets his right you can vary the points in, you can do anything per imagination sky is the limit you can do a lot of variants you can go on and on you can you can come up with many different implementations you would you would you can even create some brand new game with this as well with the different variants set up as i had said with different incentives schemes with different points and you can have a any number of any type of game you can create with this. So i would recommend that you guys do give some thoughts over it come up with your own variants do discuss that in the discussion form and as i had said in this video itself clear learning is something that is that has no match, so i would recommend that you guys please discuss in the discussion form and faster clear learning you also enrich your knowledge as well so thanks for watching the video till now please do take part in the discussion form please discuss your variants your different strategies of implementation or

any idea regarding this you have got you can please do discuss that in the discussion form  
thanks for watching till now have a nice day.