

## UNDERSTANDING VARIABLES IN PYTHON

You just now saw what print does, it isn't just this let us see more of it now. Now i have three t a s in my course now my first t a let me call it t one is amit, t one equal amit, when i say t1 it will show amit as you can see ok, and my second t a s name is simran and my third t a s name is vidya. Now i have t1 t2 and t3 now see what i am going to do, no i am going to say print hello t1 inside quotes i am going to put t1 and then i am going to close and guess what will happen, it will say hello t1 why? Whatever you put within in the quotes it will simply show whatever is inside that's it but if i say print hello and then close the quotes and then put a comma and then say t1 close the bracket and then say enter you see what happen, you probably can guess what is happening here i need not explain, it saying hello followed by whatever was told in t1, what was told in t1? Amit was told in t1. So it is simply saying hello amit, if i were to say print hello t2, it will say hello simran, where to say print hello don't worry about what comes here it is a help look up on how print command works, so please ignore this, This is too much for you to understand or even see what is written here so just ignore this thing that is coming in here, so let we say hello comma t3 it will say hello vidhya ok, there are my t a s, i am the instructor if i say I equals sudarshan and now if i say print I it will simply print sudarshan, if i say print hello I it will say hello sudarshan ok? If i say print, see i can use up arrow to go to the precious command, i just said up arrow, up arrow there are four arrows you see up, down, left, right? If i press up it will goes to the precious command, previous command. If i again press up arrow it goes to this previous command it is print of I see and then the previous and then the previous i will be using this quite often don't get confused don't be worried how i am able to type something very quickly i am just using this is called the history look up, i am just going and seeing the history so what if i say print hello t1, t2, t3 what will it display? Let us see what it will display. So it says hello amit, simran vidhya because t1 t2 t3 are amit, simran and vidhya. Now let's do something print hello t1, t2, t3and then comma how are you all doing, how are you all doing today? Then i close again it is self explanatory isn't it? You now know what this does, it simply says hello amit simran vidhya how are you all doing today? See programming is all about this, if i now realise that t1 is amit but amit said "sir please display my full name" my full name is amit verma then i will say t1 is equal to amit underscore verma let's say i put it like this ok? Now when i say print t1, it says amit verma now you can wonder what happened to the precious t1 which was actually amit, it is over written by that i mean whatever you assign the latest t1 is amit verma will be the latest value ok? If now i say t1 is equal to let say India, t1 print t1 will give you India, amit verma is now gone. Correct? Ok. So let me now get back amit verma up arrow up arrow up arrow t1 is equal to amit verma and what i will do is i will display this once again, up arrow up arrow up arrow huh! Hello t1 t2 t3 how are you all doing? Its look at the output here it was hello amit simran vidhya how are you all doing? Now t1 has become amit verma this t1 is now amit verma, so it will say hello amit verma simran and vidhya, simran vidhya how are you all doing today? See hello amit verma simran vidhya how are you all doing today? Correct, now let me enhance slightly, i would want to put a "and" here after t1 t2 i want to put "and" right? when you have three names after two names you have to put

and, and then after hello amit verma simran vidhya, i want to put a full stop, so i will put a full stop here before how starts correct? This, look at this command properly, look at this entire command properly let me highlight it for you, look at this entire command, what am i trying to do here, i am simply saying hello t1 t2 and t3 full stop how are you all doing today? Perfect it says hello amit verma simran and vidhya how are you all doing today? Amazing now you understand how print command works and how you can club variables with print command, let us conclude this discussion with a very small exercise. I say age is equal to thirty enter ok? Print the number you entered was put age and close it will say the number you entered was thirty, now if you change age to some forty and then print it will say entered was forty correct? Now i will say age whatever it was, what was it? Print age will tell you what age was, age was forty. Why not thirty? Because you wrote it once again, once you write age equals forty the latest assignment for age will be taken, by assignment is what i mean forty gets stored in this variable called age ok. If i say age equals age plus one this is a little worry some what does one mean by age equal age plus one, python is a particular way of functioning? When someone says age equals age plus one python simply takes the age value and add one to it and assigns the new value to this namely age print age will show you forty one. Correct? Don't worry so much about what these variables are? You will become very clear with them with time ok? Variable is more like a house where you store some entity right? You store you keep book in a cub board right? a variable is like a cub board and your book is like a value that you assigning see it that way it will become handy to you to call age and the value of age whatever it is right now forty one will be ready for your reference right? so don't worry even if you didn't understand if you understood only fifty percent of what i taught still you are through with understanding good amount of python in the forth coming lectures.