

a colon and then the new value of the variable. So in this case the code would print out 13.00 alright. Now let's say we wanted to delete this variable. We can do that by simply typing `delete price` and then after that we would type a period and then hit enter so In this case, the code would delete the variable called `price` Alright. Now let's talk about lists. Let's say we have a list of items and we want to display each item in turn on our application window so to do that we need to use a for loop so to declare a for loop. We would type `for item in list`, and then after that we would type parenthesis, then the list item and then after that hit enter so In this case, the code would run for each item in the list called `list` and then it would go inside the parentheses and it would assign the item inside those parentheses to the variable called `item`. So in this case, the code would print out `apple Banana cherry pineapple`, so you can see how this works if you wanted to change what was inside those parentheses. You could do that by simply typing different values for parenthesis. So in this case, I typed `apple Banana cherry pineapple`. So now you understand how to use a for loop alright. Now last but not least let's talk about functions. Functions are blocks of code that you can use in your python programs to simplify your code or to make it more powerful. You can think of functions as mini-programs inside your python program, So you can see here is a function called `square` which is just a simple function that takes one parameter which is called a number, and it returns the square of that number. Okay now let's say we wanted to call this function inside our for loop so to do that we would type `square(12.99)` inside our for loop and after that hit enter so. In this case the code would print out `12.99` and it declare and use variables in python.

You run the program and you get this message. The age of John Smith is 1990 okay. So this is how we can use the `input` function in Python to read a value from the user now. In addition to reading values from the user, we also have the ability to write values to the user. So let me show you how we do that so we first create a variable called `message` and set it to the string `'please enter your message'` now we use the `print` function to print our message on the terminal window so you can see it here now. Let's run our program and see what happens so please enter your message so we get this message now. What we want to do is display this message for as long as the user remains in our program. So we use the while loop so we type `while True` which means while the condition is `True`. So In this case the condition is that our message variable is not empty and that 's why we put a comma after while because that 's what tells Python to keep looping while this condition is met okay now if you type `exit` out of our program right now you will get an error message because our while loop condition is not met Okay. So now let's add a counter to our program. So we can keep track of how many times our while loop condition has been met. So we add a variable called `counter` and set it