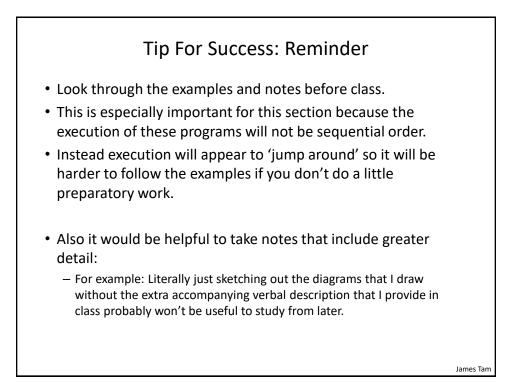
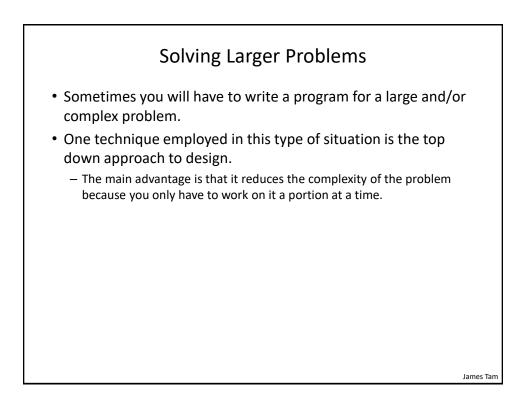
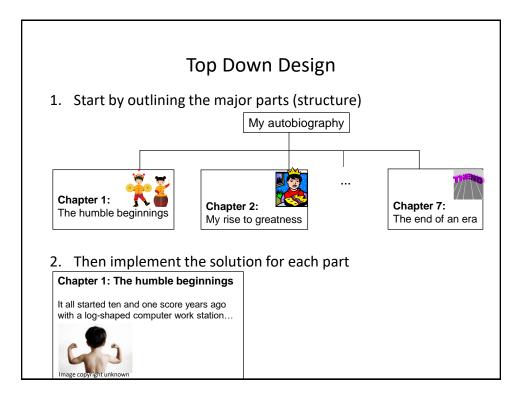
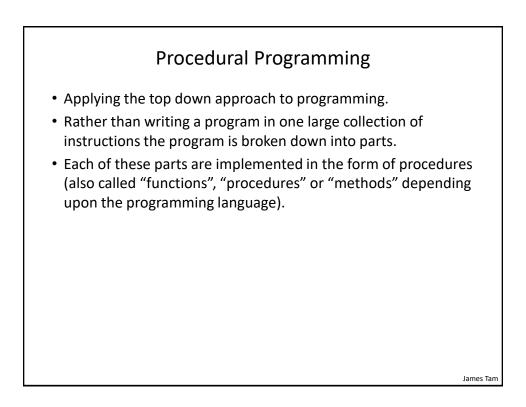
## Functions: Decomposition And Code Reuse, Part 1

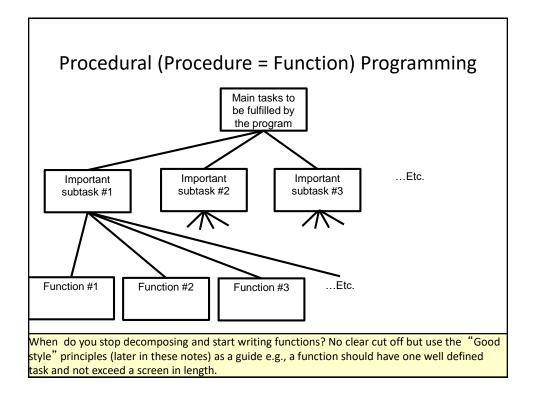
- Defining new functions
- Calling functions you have defined
- Declaring variables that are local to a function

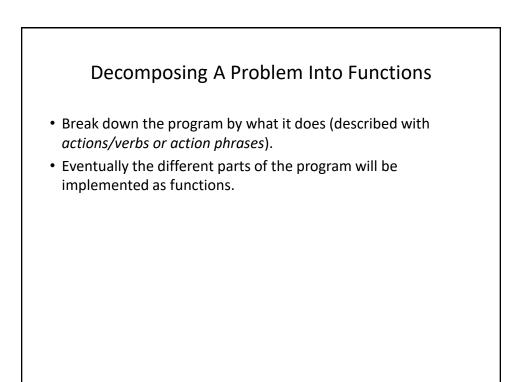






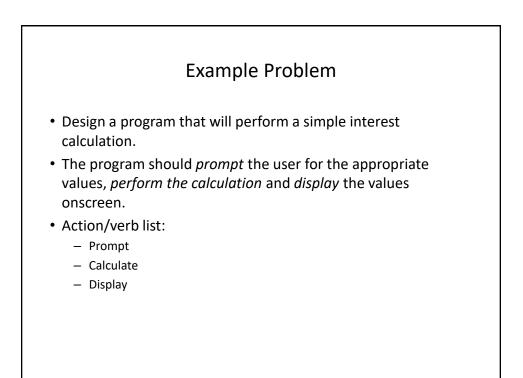


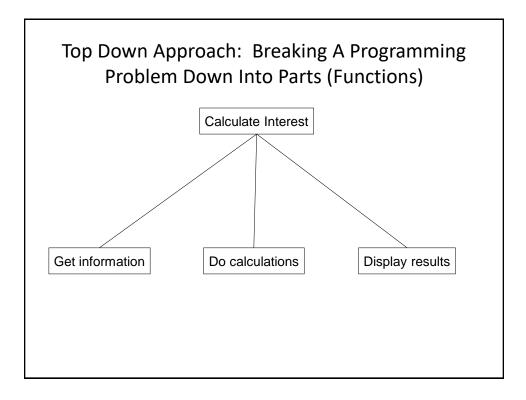


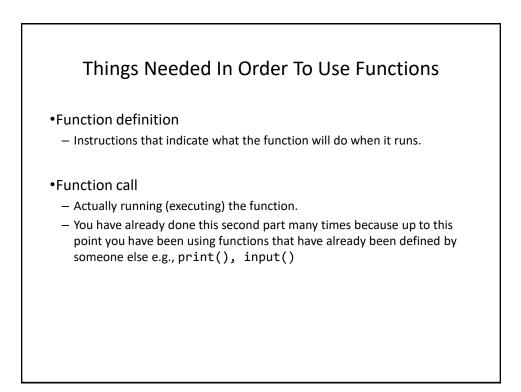


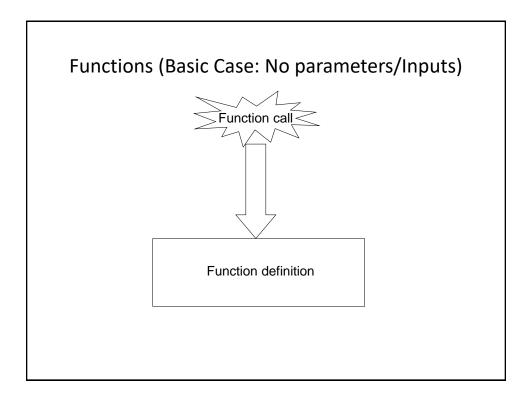


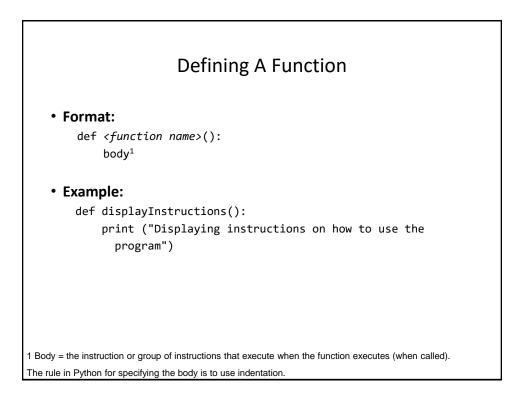
- Design a program that will perform a simple interest calculation.
- The program should prompt the user for the appropriate values, perform the calculation and display the values onscreen.

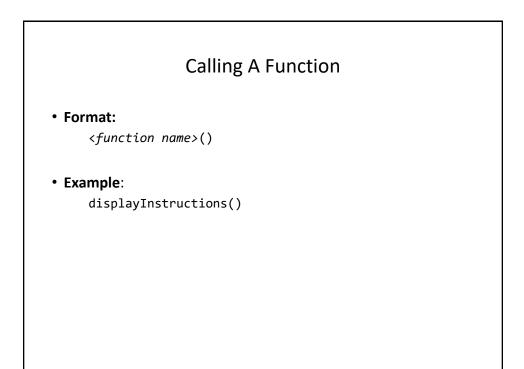


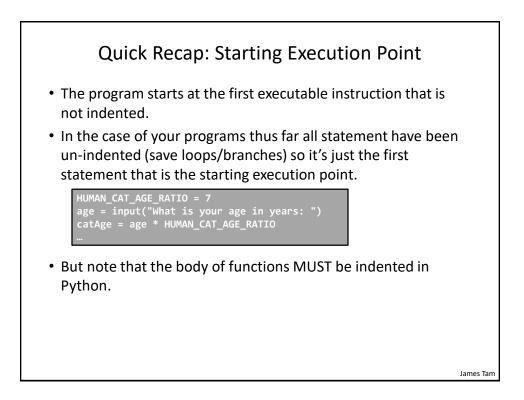


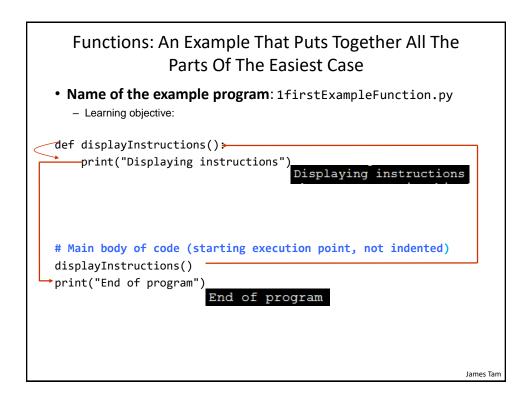


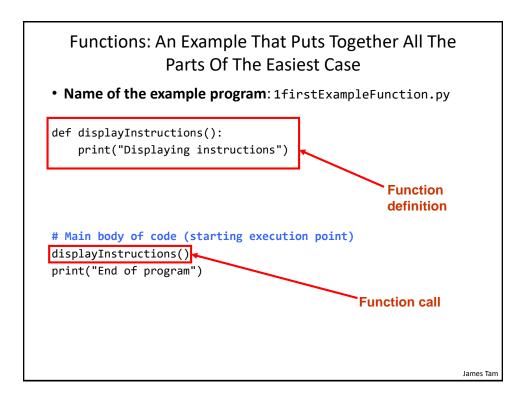


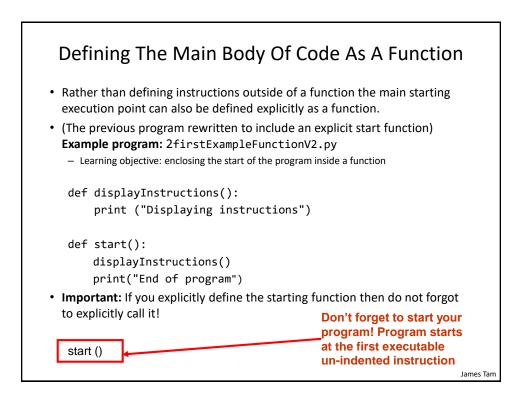


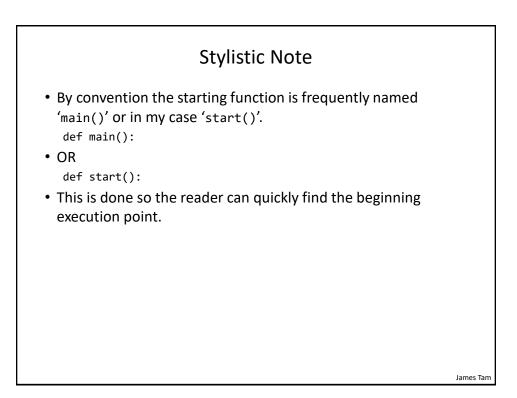


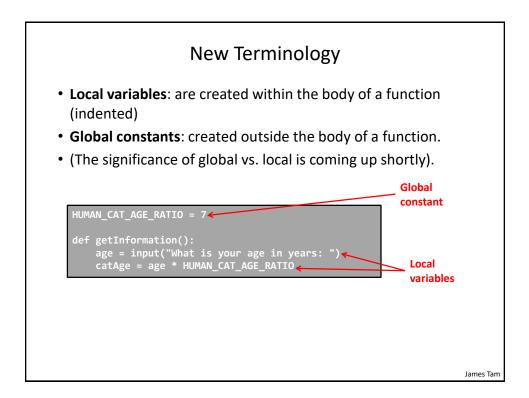


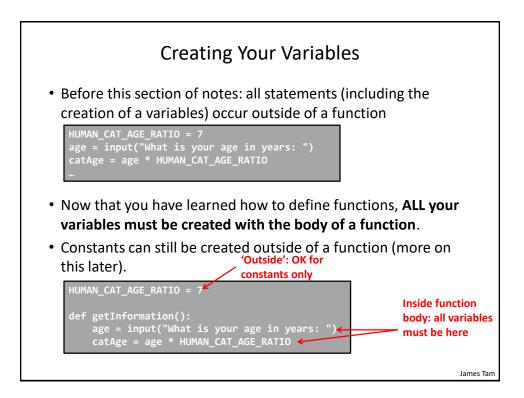


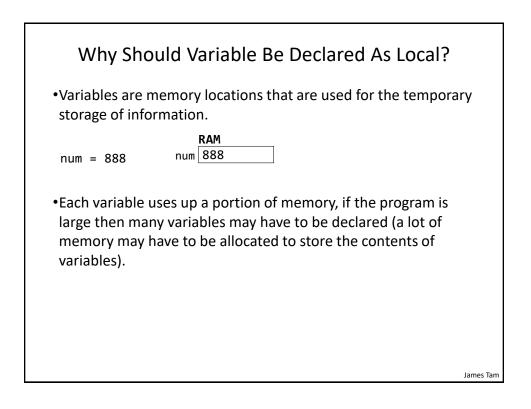


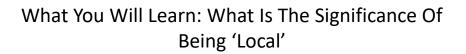




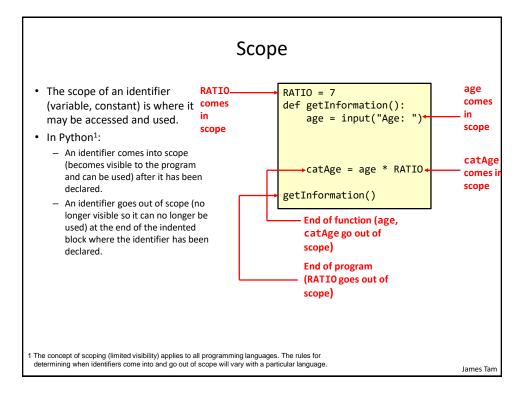


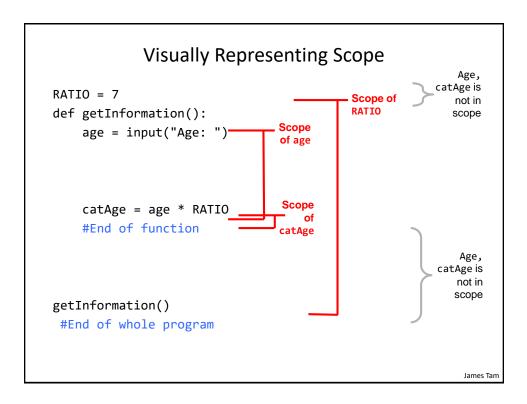


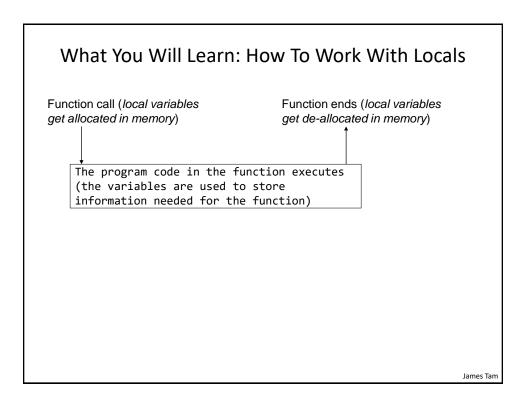


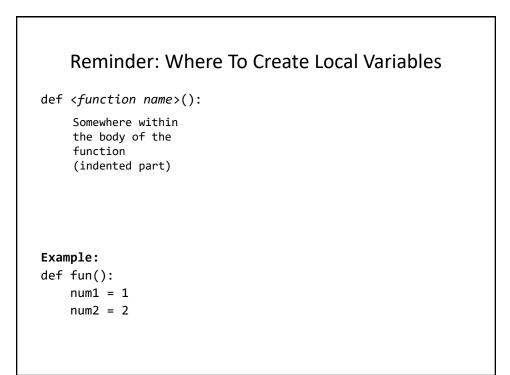


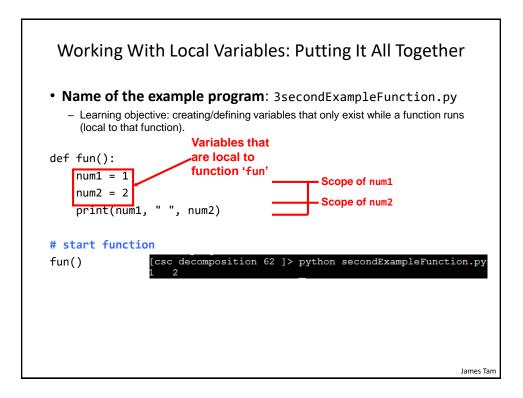
- •To minimize the amount of memory that is used to store the contents of variables only create variables when they are needed ("allocated").
- •When the memory for a variable is no longer needed it can be 'freed up' and reused ("de-allocated").
- •To design a program so that memory for variables is only allocated (reserved in memory) as needed and de-allocated when they are not (the memory is free up) variables should be declared as local to a function.
- •(There's an even better reason for making variables local coming up later 'side effects')

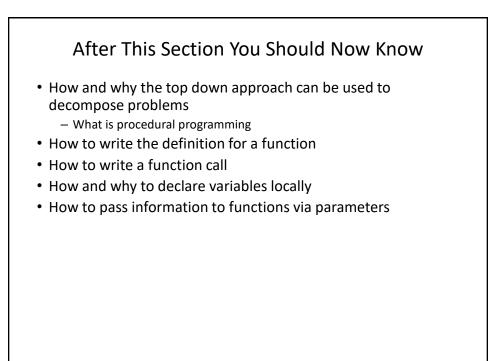












James Tam

