

Create your own Python code examples that demonstrate each of the following. Do not copy examples from the book or any other source. Try to be creative with your examples to demonstrate that you invented them yourself.

Example 1: Define a function that takes an argument. Call the function. Identify what code is the argument and what code is the parameter.

Example 2: Call your function from Example 1 three times with different kinds of arguments: a value, a variable, and an expression. Identify which kind of argument is which.

Example 3: Create a function with a local variable. Show what happens when you try to use that variable outside the function. Explain the results.

Example 4: Create a function that takes an argument. Give the function parameter a unique name. Show what happens when you try to use that parameter name outside the function. Explain the results.

Example 5: Show what happens when a variable defined outside a function has the same name as a local variable inside a function. Explain what happens to the value of each variable as the program runs.