

Python Lists

Consider the following program:	Output:
<pre>import math values = [] # Create an empty list values.insert(0,1) values.append(2) values.append(3) print '>>> values[0]:', values[0] sum = 0 for i in range(1,len(values)+1): sum = sum + i print 'Value of sum:', sum print 'Whole list...' for i in range(0, len(values)): print values[i]</pre>	<pre>values[0]: 1 Value of sum: 6 Whole list... 1 2 3</pre>

Notes:

- The variable, `values`, is a list, which works similar to an array in other languages, albeit there is no guarantee as to the internal representation of the data.
- The line `values.insert(0,1)` stores the value 1 in “location” 0
- `Values.append(2)`, adds the value 2 at the end of the list
- `Values.append(3)`, adds the value 3 at the end of the list, after 2
- The line:
`for i in range(0, len(values)):`

Generates three lines, where the iterator value “i” has the values 0, 1, and 2 inclusive