Generators and Regular Expressions

A generator expression is essentially a list comprehension in which elements are generated as-needed rather than all at-once. It does not print the contents; one way to print the contents of a generator expression is to pass it to the list constructor. List comprehensions are best used to create relatively simple lists, while using a normal for loop can be better in more complicated situations. Complicated generators using generator functions, makes use of the yield statement.

Regular expressions use the backslash character ('\') to indicate special forms or to allow special characters to be used without invoking their special meaning. A pattern represents a set of strings. For basic manipulation of strings, Python's built-in string methods use upper(), lower(), capitalize(), title(), and swapcase() methods.

The basic method of removing characters is the strip() method, which strips whitespace from the beginning and end of the line.