```
Script started
tony@myrddin: ~/Teaching/Modules/PRF$
Python 2.4.3 (#2, Apr 27 2006, 14:43:58)
[GCC 4.0.3 (Ubuntu 4.0.3-1ubuntu5)] on linux2
Type "help", "copyright", "credits" or "license" for more
information.
>>> 2
2
>>> 2 + 2
4
>>> print 2 + 2
4
>>> print '2 + 2'
2 + 2
>>> print 'apples' + 'pears'
applespears
>>> print 'apples' * 3
applesapplesapples
>>> print 'apples' * '3'
Traceback (most recent call last):
  File "<stdin>", line 1, in ?
TypeError: can't multiply sequence by non-int
>>> type ('apples')
<type 'str'>
>>> type (3)
<type 'int'>
>>> fruit = 'apples'
>>> print fruit
apples
>>> fruit
'apples'
>>> type (fruit)
<type 'str'>
>>> fruit = 2.5
>>> type (fruit)
<type 'float'>
>>> fruit == 'apples'
False
>>> fruit == 2.5
True
>>> fruit >= 1
True
>>> fruit > 1
True
>>> fruit <= 2.5
True
>>> fruit < 2.5
False
>>> fruit = True
>>> type (fruit)
<type 'bool'>
>>> fruit
True
```

```
>>> not Fruit
Traceback (most recent call last):
  File "<stdin>", line 1, in ?
NameError: name 'Fruit' is not defined
>>> Fruit
Traceback (most recent call last):
  File "<stdin>", line 1, in ?
NameError: name 'Fruit' is not defined
>>> not fruit
False
>>> nut = False
>>> fruit and nut
False
>>> fruit or nut
True
>>> not fruit or nut
False
>>> not fruit or not nut
True
>>>
tony@myrddin:~/Teaching/Modules/PRF$
Script done
```

```
Script started
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[GCC 4.0.3 (Ubuntu 4.0.3-1ubuntu5)] on linux2
Type "help", "copyright", "credits" or "license" for more
information.
>>> f = open ('revdEli.txt', 'r')
>>> f.read (12)
'Dear Gwalia!'
>>> f.readline ()
' I know there are\n'
>>> next = f.readline ()
>>> print next
Towns lovelier than ours,

>>> rest = f.readlines ()
>>> print rest
And fairer hills and loftier far,
And groves more full of flowers,

And boskier woods more blithe with spring
And bright with birds' adorning,
And sweeter bards than i to sing
Thier praise the beauteous morning.

By Cader Idris, tempest-torn,
Or Moel yr Wyddfa's glory,
Carnedd Llewelyn beauty born,
Plinlimmon old in story,

By mountains where King Arthur dreams,
By Penmaenmawr defiant,
Llareggub Hill a molehill seems,
a pygmy to a giant.

By Sawdde, Senny, Dovey, Dee,
Edw, Eden, Aled, all,
Taff and Towy broad and free,
Llyfnant with its waterfall,

Claerwen, Cleddau, Dulais, Daw,
Ely, Gwili, Ogwr, Nedd,
Small is our River Dewi, Lord,
A baby on a rushy bed.

By Carreg Cennen, King of time,
Our Heron Head is only
A bit of stone with seaweed spread
Where gulls come to be lonely.

A tiny dingle is Milk Wood
By Golden Grove 'neath Grongar,
But let me choose an oh! I should
```

Love all my life and longer

To stroll among our trees and stray
In Goosegog Lane, on Donkey Down,
And hear the Dewi sing all day,
And never, never leave the town.

```
>>> f.read (10)
''
>>> f.close ()
>>> f.read (10)
Traceback (most recent call last):
  File "<stdin>", line 1, in ?
ValueError: I/O operation on closed file
>>> f = open ('revdEli.txt', 'r')
>>> poem = f.readlines ()
>>> type (poem)
<type 'list'>
>>> poem
['Dear Gwalia! I know there are\n', 'Towns lovelier than ours,\n',
'And fairer hills and loftier far,\n', 'And groves more full of
flowers,\n', '\n', 'And boskier woods more blithe with spring\n',
"And bright with birds' adorning,\n", 'And sweeter bards than i to
sing\n', 'Thier praise the beauteous morning.\n', '\n', 'By Cader
Idris, tempest-torn,\n', "Or Moel yr Wyddfa's glory,\n", 'Carnedd
Llewelyn beauty born,\n', 'Plinlimmon old in story,\n', '\n', 'By
mountains where King Arthur dreams,\n', 'By Penmaenmawr
defiant,\n', 'Llareggub Hill a molehill seems,\n', 'a pygmy to a
giant.\n', '\n', 'By Sawdde, Senny, Dovey, Dee,\n', 'Edw, Eden,
Aled, all,\n', 'Taff and Towy broad and free,\n', 'Llyfnant with
its waterfall,\n', '\n', 'Claerwen, Cleddau, Dulais, Daw,\n',
'Ely, Gwili, Ogwr, Nedd,\n', 'Small is our River Dewi, Lord,\n',
'A baby on a rushy bed.\n', '\n', 'By Carreg Cennen, King of
time,\n', 'Our Heron Head is only\n', 'A bit of stone with seaweed
spread\n', 'Where gulls come to be lonely.\n', '\n', 'A tiny
dingle is Milk Wood\n', "By Golden Grove 'neath Grongar,\n", 'But
let me choose an oh! I should\n', 'Love all my life and longer\n',
'\n', 'To stroll among our trees and stray\n', 'In Goosegog Lane,
on Donkey Down,\n', 'And hear the Dewi sing all day,\n', 'And
never, never leave the town.\n']
>>> for line in poem:
...   print line
...
Dear Gwalia! I know there are

Towns lovelier than ours,

And fairer hills and loftier far,

And groves more full of flowers,
```

And boskier woods more blithe with spring

And bright with birds' adorning,

And sweeter bards than i to sing

Thier praise the beauteous morning.

By Cader Idris, tempest-torn,

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Carnedd Llewelyn beauty born,

Plinlimmon old in story,

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A bit of stone with seaweed spread

Where gulls come to be lonely.

A tiny dingle is Milk Wood

By Golden Grove 'neath Grongar,

But let me choose an oh! I should

Love all my life and longer

To stroll among our trees and stray

In Goosegog Lane, on Donkey Down,

And hear the Dewi sing all day,

And never, never leave the town.

```
>>> for line in poem:
...    print line[:-1]
...
```
Dear Gwalia! I know there are
Towns lovelier than ours,
And fairer hills and loftier far,
And groves more full of flowers,

And boskier woods more blithe with spring
And bright with birds' adorning,
And sweeter bards than i to sing
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Script done

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information.
>>> from OrangUtan import *
>>> bob = new (OrangUtan ('Bob', 0, 0)
>>> print bob
Bob is at (0, 0)
>>> bob.setX (1)
>>> print bob
Bob is at (1, 0)
>>> bob.moveTo (3, 3)
>>> print bob
Bob is at (3, 3)
>>> bob.distanceFrom (0, 0)
4.2426406871192848
>>> trev = OrangUtan ('Trev', 0, 0)
>>> print Trev
Traceback (most recent call last):
  File "<stdin>", line 1, in ?
NameError: name 'Trev' is not defined
>>> print trev
Trev is at (0, 0)
>>> trev.moveTo (3, 3)
>>> bob == trev
False
>>> bob == bob
True
>>> bob.distanceFrom (trev)
Traceback (most recent call last):
  File "<stdin>", line 1, in ?
TypeError: distanceFrom() takes exactly 3 arguments (2 given)
>>> bob.distanceFrom (trev.getX (), trev.getY ())
0.0
>>> exit
'Use Ctrl-D (i.e. EOF) to exit.'
>>>
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Script done
```