

Python Expressions

```
>>> i = 2
>>> j = 3
>>> k = 6
>>> i + j * k
20
>>> (i + j) * k
30
>>> j * k + i
20
```

```
#
# !!! in Python 3.x division of ints causes automatic conversion to
# float !!!
#
>>> type(i/j)
<type 'int'>
>>> i/j
0
>>> i
2
>>> j
3
>>> float(i/j)
0.0
>>> float(i)/float(j)
0.6666666666666666
>>>
```

```
#
# string stuff
#
>>> mystr = 'foobar'
>>> mystr[3]
'b'
>>> mybigstr = mystr + " kaka"
>>> mybigstr
'foobar kaka'
>>> len(mybigstr)
11
>>> allcapstr = mybigstr.upper()
>>> allcapstr
'FOOBAR KAKA'
>>> nocapstr = mybigstr.lower()
>>> nocapstr
'foobar kaka'
>>> 'a' in nocapstr
True
```

```
>>> min(nocapstr)
', '
>>> min(mystr)
'a'
>>> nocapstr.endswith('ka')
True
>>> sort_mystr = sorted(nocapstr)
>>> sort_mystr
[' ', 'a', 'a', 'a', 'b', 'f', 'k', 'k', 'o', 'o', 'r']
>>>
```