Non-scalar objects

- We will see many different kinds of compound objects
- The simplest of these are strings, objects of type str
- Literals of type string can be written using single or double quotes
 - 'abc'
 - "abc"
 - '123' this is a string of characters, not the number

Operators on strings

```
>>> 3 * 'a'
 'aaa'
 >>> 'a' + 'a'
 'aa'
>>> 'a' + str(3)
'a3'
 >>> len('abc')
```

Extracting parts of strings

• Indexing:

- 'abc'[0] returns the string 'a'
- 'abc'[2] returns the string 'c'
- 'abc' [3] is an error (as we cannot go beyond the boundaries of the string)
- 'abc' [-1] returns the string 'c' (essentially counting backwards from the start of the string)

Slicing:

- If s is a string, the expression s[start:end] denotes the substring that starts at start, and ends at end-1
 - 'abc'[1:3] has the value 'bc'