Operators

Assignment	=
Arithmetic	+, -, *, /, %
Comparison	>, >=, <, <=, ==, !=
Logical	not, and, or

String operations (string s)

s.count(substring)	Count occurences
s.find(substring)	Index of first occurence
s.join(sequence)	Concatenate sequence
s.split([delimiter])	Split into list

List operations (list l, element e)

l.append(e)	Add e
l.remove(e)	Remove e
l.pop(e)	Remove and return e
l.count(e)	Count occurences
l.reverse()	Reverse l
l.sort()	Sort l

Dictionary operations (dict d, key k)

d.clear()	Clear d
d.get(k)	Return d[k]
d.keys()	Return keys in d
d.values()	Return values in d
d.items()	Return key-value pairs in d

File operations (file f)

f = open(path)	Open f
f.read()	Read f
f.readline()	Read line from f
f.readlines()	Return list of lines in f
f.write(s)	Write s to f
f.close()	Close f

In-built functions

int(),float(),str(), bool()...	Type casting
len(data)	Length
min(values), max(values)	Minimum / Maximum
pow(x,y, [z])	X to the power Y [mod Z]
range(start, stop, [step])	Ordered list
input(),print()	Console Input/Output
filter(function, array)	Filter array
map(function, array)	Map function onto array
id(object)	Unique object ID
round(n, [x])	Round n [x decimal places]

Module import

```
import module
```

```
from module import submodule
```

Control Flow

if(cond): <code> else: <code>	If-else
if(cond1): <code> elif(cond1): <code> else: <code>	If-elif-else
for i in range([start], stop, [step]): <code>	For loop over range
for i in items: <code>	For loop over iterable
while(condition): <code>	While loop
break	Exit first enclosing loop

Control Flow (cont)

continue	Skip to next iteration

Useful standard library modules

math,numpy, scipy	Math
matplotlib	Graph plotting
random	Random generators
datetime	Date and time
timeit	Performance
re	Regular expressions
os	OS interaction
sys	stdin, stdout, stderr, version
urllib	Internet access
zlib	Data compression

Object-oriented

class Person:	Class definition
x = Person(age, height)	Object creation
x.age	Field access
x.birthday()	Method access

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