Python Begrippen lijst

**Integer**Int() een getal met maximaal 2 getallen achter de ,

**Float**Float() een getal met meerdere cijfers achter de ,

x + y Add

x - y Subtract

x \* y Multiply

x / y Divide (produces a float)

x // y Floor Divide (produces an integer)

x % y Modulo (remainder)

x \*\* y Power

x << n Bit shift left

x >> n Bit shift right

x & y Bit-wise AND

x | y Bit-wise OR

x ^ y Bit-wise XOR

~x Bit-wise NOT

abs(x) Absolute value

**While loop**While variable > 0:  
 ………  
 ………

**Print part of string.**a[:5] print tot aan de 5e letter.  
a[6:] print vanaf de 6e letter

**String**s.endswith(suffix) *# Check if string ends with suffix*

s.find(t) *# First occurrence of t in s*

s.index(t) *# First occurrence of t in s*

s.isalpha() *# Check if characters are alphabetic*

s.isdigit() *# Check if characters are numeric*

s.islower() *# Check if characters are lower-case*

s.isupper() *# Check if characters are upper-case*

s.join(slist) *# Join a list of strings using s as delimiter*

s.lower() *# Convert to lower case*

s.replace(old,new) *# Replace text*

s.rfind(t) *# Search for t from end of string*

s.rindex(t) *# Search for t from end of string*

s.split([delim]) *# Split string into list of substrings*

s.startswith(prefix) *# Check if string starts with prefix*

s.strip() *# Strip leading/trailing space*

s.upper() *# Convert to upper case*

**File lezen/schrijven**

f **=** open('foo.txt', 'rt') *# Open for reading (text)*

g **=** open('bar.txt', 'wt') *# Open for writing (text)*

**with** open(filename, 'rt') **as** file:

*# Use the file `file`*

...

*# No need to close explicitly*

...statements

**with** open('foo.txt', 'rt') **as** file:

data **=** file.read()

*# `data` is a string with all the text in `foo.txt`*

**with** open(filename, 'rt') **as** file:

**for** line **in** file:

*# Process the line*

**with** open('outfile', 'wt') **as** out:

out.write('Hello World\n')

...

**with** open('outfile', 'wt') **as** out:

**print**('Hello World', file**=**out)

...

**>>>** **with** open('Data/portfolio.csv', 'rt') **as** f:

**for** line **in** f:

**print**(line, end**=**'')

name,shares,price

"AA",100,32.20

"IBM",50,91.10

...

**>>>**

**>>>** **import** gzip

**>>>** **with** gzip.open('Data/portfolio.csv.gz', 'rt') **as** f:

**for** line **in** f:

**print**(line, end**=**'')

... look at the output ...

**>>>**

**Functions**

**for** line **in** f:

fields **=** line.split()

**try**:

shares **=** int(fields[1])

**except** ValueError:

**print**("Couldn't parse", line)

...

Import sys belangrijk voor commando achter filenaam.

*# pcost.py*

**import** sys

**def** **portfolio\_cost**(filename):

...

*# Your code here*

...

**if** len(sys.argv) **==** 2:

filename **=** sys.argv[1]

**else**:

filename **=** 'Data/portfolio.csv'

cost **=** portfolio\_cost(filename)

**print**('Total cost:', cost)

**Tuples**

s **=** ('GOOG', 100, 490.1)

name **=** s[0] *# 'GOOG'*

shares **=** s[1] *# 100*

price **=** s[2] *# 490.1*