Python Reference Guide

Version 1.2

String operations

retrieves last character

removed

retrieves character at position i

retrieves characters in range i t



		Main data types				
A	integer float = string	an = True / False er = 10 = 10.01 = "123abc" [value1, value2,]				
	Nur	neric Operators	Com	parison Operato		
B	+ - * / ** % //	addition subtraction multiplication division exponent modulus floor division	== != > < > >= <=	equal not equal higher lower higher or equal lower or equal		
	Вос	olean Operators	Sp	ecial characters		
	and	logical AND	#	comment		

logical OR

logical NOT

		String methods
ors	string.upper()	returns uppe
	string.lower()	returns lowe
	string.count(x)	counts how
		appears
	string.find(x)	position of the
		occurrence o
I	string.replace(x,y)	replaces x w
	string.islower()	returns True
		are lowercas
s	string.isupper()	returns True
		are uppercas
	string.isalnum()	returns True
		are alphanur
	string.isalpha()	returns True
)	are alphabet
	string.isdigit()	returns True
		are digits
	string.index(s)	returns inde
		string

string.strip(x)

string[i]

string[-1]

string[i:j]

es character es characters in range i to	list[i]
ng methods	list[i:
returns uppercase string returns lowercase string	list[i: del li
counts how many times x	
appears position of the first occurrence of x replaces x with y	list.a list.e
returns True if all characters	list.ir
are lowercase	list.r
returns True if all characters are uppercase returns True if all characters	list.p
are alphanumeric	list.c
returns True if all characters are alphabetic	list.ir
returns True if all characters are digits	list.c
returns index of substring s in string	list.s
returns a string with leading and trailing characters	list.r
romoved	list c

	open dations	
list = []	defines an empty list	
list[i] = x	stores x with index i	
list[i]	retrieves the item with index i	
list[-i]	retrieves last i item from list	
list[i:j]	retrieves items in the range i to j	
list[i:]	retrieves items from i to the end	
del list[i]	removes the item with index i	

List operations

	List methods	
list.append(x) list.extend(L)	appends x to the end of the list	
iist.exteriu(L)	appends L to the end of the list	
list.insert(i,x)	inserts x at i position	
list.remove(x)	removes the first list item	
	whose value is x	
list.pop(i)	removes the item at position i	
	and returns its value	
list.clear()	removes all items from the list	
list.index(x)	returns the position of the first	
	occurrence of x in a list	
list.count(x)	returns the number of times x	
	appears in a list	
list.sort()	sorts items in a list	
sorted(L)	returns a new list with L items	
	sorted	
list.reverse()	reverses list elements	
list.copy()	returns a copy of the list	

%=

/=

//=

\n

\t

Assignment operators

new line

tab

\<char> escape char

Built-in functions print(x, sep='y') prints x objects separated by y input(s) prints s and waits for an input that will be returned len(x) returns the length of x (s or L) min(L) returns the minimum value in L max(L) returns the maximum value in L sum(L) returns the sum of the values in L range(n1,n2,n) returns a sequence of numbers from n1 to n2 in steps of n returns the absolute value of n abs(n) round(n1,n) returns the n1 number rounded to n digits returns the type of x (string, type(x) float, list ...) str(x) converts x to a string list(x) converts x to a list int(x) converts x to an integer float(x) converts x to a float bool(x) converts x to a Boolean value pow(n1,n2) returns n1 to the power of n2 chr(x) returns the string value of a Unicode code ord(x) returns the Unicode code of a single-character string

applies function to values in L

map(function, L)

Conditional statements

if <value> in <list>:

<code>

else:

Loops

while <condition>: <code>



Loop control statements

breakfinishes loop executioncontinuejumps to next iterationpassdoes nothing



Reading and writing files

f = open(<path>,'r')
f.read(<size>)
f.readline(<size>)
f.close()



f = open(<path>,'w')
f.write(<str>)
f.close()

Functions



Modules

import module
module.function()



from module import *
function()