

Python Programming Cheat Sheet

Concept	Syntax	Example
Comments	# - Single line """ - Multiline """	#This is a comment """ This is a Multiline comment """
Indentation	code blocks use 4 spaces or 'tab'	def myfunc(a): return true
Print	print("value")	>>print("Hello World") [output] Hello World
Variables	case sensitive characters and digits no spaces cannot be a reserved word	Number = 72 float = 3.33 Myname = "jane"
Assignment	= , += , -= , *= , /= , %= , **= , //=	a = 21 b = 3 c = 80 a = b + c c += a c *= a
Math Operators	+ -- addition - -- subtraction * -- multiplication / -- division % -- modulus ** -- exponent // -- floor division	a = 10 , b = 20 a + b = 30 a - b = -10 a * b = 200 b / a = 2 b % a = 0 a ** b = 10^20 9//2=4
String Concatenation	String1 + string2	var1 = "hello" , var2 = "world" var3 = var1 + var2 #new string
Data types	Numbers List Tuple String Dictionary	integers: 1,3,1004, 10 floats: 10.0, 7.456, 1098.45 string "10" strings "Jack be nimble" strings 'hello sam'

Data type conversions	<pre>str(x) int(x) float(x) complex(x)</pre>	
Input	<pre>var = input("String")</pre>	<pre>age = input("what is your name ")</pre>
Equality and Inequalities	<pre>== != > < <= >=</pre>	<pre>a == b a > b a < b a <= b a >= b</pre>
If - elif - else statement	<pre>If test_expression: statement(s) elif test_expression: statement(s) else: statement(s)</pre>	<pre>testScore=90.0 if (testScore>=90.0): print("You scored an A") print("good job") elif (testScore>=80.0): print("You scored an B") print("good job") else: print("You scored lower than a B")</pre>
for loop, range	<pre>for val in sequence: body for for range(start, step, stop)</pre>	<pre>Words = ["cat","window","defenestrate"] for w in words: print w, len(w) range(10, 100)</pre>
while loop	<pre>while test_expression: body statement(s)</pre>	<pre>count = 0 while (count < 9): print 'The count is:', count count = count + 1 print "Good bye!"</pre>
break and continue	<pre>continue</pre>	<pre>#continue for val in "string":</pre>

	break	<pre> if val == "i": continue print(val) print("The end") #break for val in "string": if val == "i": break print(val) print("The end") </pre>
pass	pass	<pre> alphabet = {'a', 'b', 'c', 'd'} for str in alphabet: pass </pre>
Function	<pre> def function(parameters): statement(s).. return </pre>	<pre> def greet(name): print("Hello, " + name + ". Good morning!") </pre>
import	import [library]	<pre> Import math Import pandas </pre>
Reserved words	<p>And , del ,from, not, while as ,elif ,global,or ,with, assert, else, if, pass ,yield, break ,except ,import ,print class, exec, in, raise, continue,finally, is, return, def,for ,lambda, try</p>	