

Python ESO II AULA Cheat Sheet

by Jordi Losantos (jlosantos) via cheatography.com/139908/cs/29601/

Basics

Spaces and indentation (tabs) are relevant parts of the code
Instructions in a *block of code* will have the same indentation

A *block of code* contains one or more lines of code inside it. The contained lines will be indented one more level than the container one

A colon: opens a new block of code in the following line.

#at the beginning of a line marks this line as non-executable. For

This is a single line comment

To create multiple line comments, use three apostrophees in a row

...

This is a

Multiline comment

		es

There's no declaration of variables. When you use a new name in an assign sentence, that becomes a variable of the type of the value assigned to it	a = 10 creates avariable called athat stores aninteger value
The decimal separator is the point	a = 3.14 creates avariable called athat stores adecimal (float) value
To transform a numerical value into a string you <i>cast</i> it using the function str()	str(10) will create the string value "10"
To transform a string value into an integer you <i>cast</i> it using the function int()	int("10") will create the integer value 10

A variable contains a literal value of a certain type (integer, alphanumeric, decimal, boolean, etc) and it can be used to perform different operations or construct logical expressions

Basic input / output				
print(a)	Prints the content of the variable called <i>a</i> and opens a new line	print("Helo world") Hello word and opens a new line		
print(a,end=",")	Prints the content of the variable called <i>a</i> and then a comma without opening a new line	<pre>print(name,end=",") My name,</pre>		
input()	Reads a string value form the keyboard	<pre>a = input() will store in a variable called a the value entered by the user as a string</pre>		
int(input())	Reads a string value form the keyboard, ant <i>casts</i> it into an integer	<pre>a = int(input()) will store in a variable called a the value entered by the user casted as an integer</pre>		

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if (<i><expr></expr></i>):	Forks the execution stream according to the logical value of the expression <i><expr></expr></i>	<pre>if (a == b): <do something=""></do></pre>			
else:	As part of an <i>if else</i> block, starts the block code to be executed if the <i>expresion</i> was False	else: <do esle="" something=""></do>			
elif (<expr2>):</expr2>	Compound an <i>else:</i> statement with a new <i>if</i> statement	elif (a <b): <and another=""></and></b): 			
while (<expr>):</expr>	Generates a <i>loop</i> that will run as long as the expression <i><expr></expr></i> is	while (a<10): <do something=""> <update a=""></update></do>			



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Arithmetic operators				
+	add	12 + 5 returns 17		
-	subtract	12 - 5 returns 7		
*	product	12 * 5 returns 60		
/	decimal division	12 / 5 returns 2.4		
//	division (whole numbers)	12 // 5 returns 2		
%	remainder of the division	12 % 5 returns 2		
**	exponentiation	12 ** 5 returns 248832		

Comparison operators (logical)				
<	less than	12 < 5 evaluates as False		
<=	less than or equal to	12 <= 5 evaluates as False		
==	equal to	12 == 5 evaluates as False		
>=	greater than or equal to	12 >= 5 evaluates as True		
>	greater than	12 > 5 evaluates as True		
!=	not equal to	12 != 5 evaluates as True		

In a comparison, the sign of equality (=) can never be alone as it would be confused with the assignment of values (a = 10). This is why the logical equality operator is a double sign of equality. Therefore a=10 means assign the value 10 to the variable a and a==10 means is the content of the variable a a number 10?

Lists

To be added next course

Maths		
abs(<i>arg</i>)	receives an integer number as an argument and returns the integer absolute value	abs(-12) returns 12
math.fabs(arg)	receives a float as an argument and returns the float absolute value	math.fabs(-1-2.34) returns 12.34 math.fabs(-12) returns 12.0
math.f- loor(<i>arg</i>)	receives a float as an argument and rounds it down to the nearest integer	math.floo- r(2.5) returns 2 math.floor(- 3.4) returns -4
math.ceil(<i>arg</i>)	receives a float as an argument and rounds it up to the nearest integer	math.ceil(2.5) returns 3 math.ceil(-3.4) returns -3
math.pi	returns the value of Pi	math.pi returns 3.1415926- 53589793

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Logical operators		
<expr1> and <expr2></expr2></expr1>	True if and only if the two expressions are True	(a>- 0) and - (a<5)
<expr1> or <expr2></expr2></expr1>	True if and only if at least one of the two expressions is True	(a<- 0) or - (a>=5)
not <expr></expr>	True if and only if <expression> is False</expression>	not - (a==0)
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By *logical* we understand an expression or operation that can only take two different values: **True** or **False**



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