

IS833 – Business Analytics in Practice Python Help Guide

Useful Links:

Resource for all things Python: <u>link</u>

Resource for Python for people who do not have much programming experience: <u>link</u>

Dictionary of functions standard in Python: <u>link</u>

Use this link to understand more about the terms listed below: <u>link</u>

Terms/Concepts	Use	Example	Link
# (hash)	A character used at the beginning of a line to enter explanatory text ignored by the program	#This is why I did the following command	-
if	Command used to begin a conditional statement	<pre>n = input ("number?") if n < 0: print "The absolute value of", n, "is", -n</pre>	<u>link</u>
else	Command used to tell the program what to do when an "if" statement is false	else: print "The absolute value of", n, "is", n Output Number? <-34>	-
comparison	Concept of comparing two items in a conditional statement (<,>,=)	The absolute value of -34 is 34 print "Hello, World!"	<u>link</u>
print	Command used to tell program to display something on screen	Output Hello, World!	-
input	Command that indicates numerical input expected along with a prompt to the user	-	-



		print "Halt!"	
raw_input	Command that indicates data input and displays a prompt to the user	<pre>user_reply = raw_input("Who goes there?")</pre>	<u>link</u>
		print "You may pass,", user_reply	
		Output Halt!	
		Who goes there? < Josh>	
		You may pass, Josh	
setting variables	Concept of naming variables for the program	-	-
	to use		
int()	Command that converts a string number to an integer	-	link
float()	Command that converts a string or number to a floating-point decimal number	_	<u>link</u>
	Concept of true/false and yes/no variables	a = 6	
		b = 7	
boolean		print 1, a == 6	<u>link</u>
variables		print 2, a == 7	
		Output 1 True	
		2 False	
while	Command used to start a loop	a = 0	
		while a < 10:	link
		a = a + 1	
		print a	
break	Command used to stop a loop	x = 5	
		while x > 0:	
		print x	_
		break	
		x -= 1	
		print x	



for	Command used to start another type of loop that sequentially goes through items in a list	list = [2, 4, 6, 8] sum = 0 for num in list: sum = sum + num print "The sum is:", sum	<u>link</u>
defining functions	The concept of being able to define certain operations which can be used on multiple arguments	<pre>def absolute_value(n): if n < 0: n = -n return n a = 23 b = -23 if absolute_value(a) == absolute_value (b): print "The absolute values of", a, "and", b, "are equal" else: print "The absolute values of", a, "and", b, "are different" Output The absolute values of 23 and 23 are equal</pre>	<u>link</u>
lists	The concept of using variables with more than one value	<pre>which_one = input("What month (1-12)?") months = ['January', 'February', 'March', 'April', 'May', 'June', 'July', 'August', 'September', 'October', 'November', 'December'] if 1 <= which_one <= 12: print "The month is", months [which_one - 1] Output What month (1-12)? <3> The month is March</pre>	<u>link</u>