Copyright 2015 Cybrary.IT

Apprentice Python

Let's get cracking

CYBRARY.IT

Copyright 2015 Cybrary.IT

I/O (Input/Output)

One of the basic tasks in any programming language, the ability to take input and give output is essential.

raw_input() - take input of any kind
print - display information to the screen

CYBRARY.IT

Copyright 2015 Cybrary.IT

Print Formatting

print “%[format_character]” % (corresponding data)

'd'	Signed integer decimal.	
'i'	Signed integer decimal.	
'x'	Signed hexadecimal (lowercase).	(2)
'e'	Floating point exponential format (lowercase).	(3)
'f'	Floating point decimal format.	(3)
'c'	Single character (accepts integer or single character string).	
'r'	String (converts any Python object using repr()).	(5)
's'	String (converts any Python object using str()).	(6)

CYBRARY.IT

Copyright 2015 Cybrary.IT

Statements & Control Flow

- import
- if
- while
- def
  - Functions
- for

CYBRARY.IT

Copyright 2015 Cybrary.IT

import

- This is how you include another python module or library in your code. It pulls the entire module in, and then you can reference specific elements by using:
  - modulename.elementname

CYBRARY.IT

Copyright 2015 Cybrary.IT

if

- Checks the True/False (Boolean) value of a statement and executes code conditionally.

CYBRARY.IT

Copyright 2015 Cybrary.IT

while

- Also uses a boolean test condition, but executes the same code block repeatedly until that condition is no longer True

CYBRARY.IT

Copyright 2015 Cybrary.IT

def

- defines a function object
- def functionname():
  - functionbody

CYBRARY.IT

Copyright 2015 Cybrary.IT

for

- Ok, I admit, I'm cheating with this one. It's not control flow, it's actually an iterator (something we'll discuss later). However, for loops are one of the most elemental aspects of Python, and need to be discussed.

CYBRARY.IT

Copyright 2015 Cybrary.IT

Expressions

- == - test equivalency
- < > - determine if a number is larger or smaller
- != - test inverse equivalency
- = - assigns value (Don’t confuse with ==)

CYBRARY.IT

Copyright 2015 Cybrary.IT

Let's do some activities!