Python 'Cheat Sheet' May 22, 2020, Chris Monico

This is just a very quick reference, with a couple of small examples illustrating each concept. Most of these are far more powerful than the examples illustrate, though!





IDLE shell window

IDLE editor Window

in shell window, $File \rightarrow New\ File$, or CTRL+N	
in either window, $File \rightarrow Open \ File$, or CTRL+O	
in editor window, $Run \rightarrow Run \ Module$, or F5	
	in either window, $File \rightarrow Open\ File$, or CTRL+O

Comments

This comments out a single line

Or surround with triple-quotes, for multi-line comments.

Variables

Variable names are case-sensitive, and can contain upper and lower case letters, digits, and the underscore character. They may **not** start with a digit. The following are valid and different variable names:

```
N = 10
n = 2
my_str = 'Monty'
my_str2 = "Python"
x2 = 1.2917
```

Numeric Operators

For numbers, the basic arithmetic operators are exactly what you would expect: + - * /, and parentheses group expressions as you would expect. Two additional operators that are often useful are:

```
x = 3
y = 2
#(1) The modulus operator % to compute the remainder of x divided by y:
z = x % y
#(2) The exponentiation operator ** to compute x to the y power:
u = x**y
v = (x+y)**(0.5)
```

Printing

```
n=5
pi=3.141592653589
#Simple positional formatting:
#%d integer, %f float, %s string
print("n is %d and pi is about %1.5f"% (n,pi))
# The format method:
print("n is {0} and pi is about {1}".format(n,pi))
```

Input

```
#Prompt the user to enter a name
name = input("Enter a name: ")
#Prompt the user for an age, but convert to an int,
#in case we want to do arithmetic with it later.
age = int(input("Age: "))
print("Name: %s, Age: %d"%(name,age))
```