Basic Data type and Function Cheatsheet

Here's a quick reference for data types in Python.

Data types

Data type	Meaning	Example
string	Text	'Hello', 'Testing 123'
integer	Numbers	-5, 4, 3, 2, 0
float	Decimals	2.4, 5.2, 1000.00

Flow Control

Comparison operators

Operator	Meaning	Example
==	Equals	a == b
!=	Not Equal	a != b
<	Less than	a < b
>	Greater than	a > b
<=	Less than or Equal to	a <= b
>=	Greater than or Equal to	a >= b

Comments

Single-line comments

Placing a # symbol in front of the text you want to be a comment causes Python to ignore everything from that point until the end of the current line.

```
1 # Single Line comment
2 Run
```

Multi-line comments

Python does not really have a method for multi line comments, so a # symbol can be used on every line.

```
1 # This is a multiline comment
2 # which can be used for long comments
3 Run
```

Inline/code comments

The # symbol will cause Python to ignore everything from that point until the end of the current line, so inline comments can be created in this way.

```
1 x = 1 # assigns value of 1 to x
2 Run
```

Built-in Functions

print()

This function looks for the default output device, your terminal, and displays the value passed to it.

```
1 print("Hello")
2 Run
Reset
```

input()

This function looks for the default input device, your keyboard, and captures the value. This value can then be assigned or used.

```
print("Where do you live?")
location = input()
print("So you live in " + location)

Run

Reset
```

len()

This function returns the length or the count of the elements contained within the structure it is applied on. This may be a string, array, list, tuple, dictionary or any sequence.

```
1 len("Hello")
2 5

Run
Reset
```

str()

This function can be used to convert the provided value into a String

```
1 str(55)
2 '55'
3 Run
```

int()

This function can be used to convert the provided value into an int

```
1 int('75')
2 75

Run

Reset
```

float()

This function can be used to convert the provided value into a float

Creating Functions

Functions in Python require a keyword to define them: def followed by an identifier (a name) this forms the function signature. The body of the function contains the code to run when the function is called.

```
1
2  def say_hello():
3    return "Hello there!"
4
5  # With parameters
6  def say_hello(you):
7    return "Hello " + you
8
```