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
Reset

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
Reset

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
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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
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input()

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

```
1  print("Where do you live?")
2  location = input()
3  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.

```
len("Hello")
5
```

Run
Reset

str()

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

```
str(55)
'55'

```

Run
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int()

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

```
int('75')
75
```

Run
Reset

float()

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

```
some_int = 10
float(some_int)
10.0

```

Run
Reset

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.

```

def say_hello():
    return "Hello there!"

# With parameters
def say_hello(you):
    return "Hello " +  you

```

Run
Reset

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