

Data Types

Integer	-238, 39
Float	-253.23, 1.253e-10
String	"Hello", 'Goodbye', "Multiline"
Boolean	True, False
List	[value, ...]

Defining a variable

```
variable_name = value
```

Conditional Statement

```
if condition:
    statements
elif condition:
    statements
else:
    statements
```

Arithmetic Operators

x + y	add	x - y	subtract
x * y	multiply	x / y	divide
x % y	modulus	x ** y	power

Comparison Operators

x < y	Less	x <= y	Less or eq
x > y	Greater	x >= y	Greater or eq
x == y	Equal	x != y	Different

Boolean Operators

not x	x or y	x and y
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For loop

```
for i in range(start, end):
    statements
```

While loop

```
while condition:
    statements
```

Break and Continue

Break	Go out of the loop
Continue	Go back to the beginning of the loop

Function Definition

```
def name(arg1, arg2, ...):
    statements
    return expr
```

Function usage

```
name(arg1, arg2, ...):
```

Useful functions

```
print("something")
variable_name = input("something")
```

Operation on strings

len("example")	7
"example1" + "example2"	"example1example2"
str(36)	"36"
"I love Python".upper()	"ILOVEPYTHON"
"I love Python".lower()	"ilovepython"

Lists Basics

Create an empty list	my_list = []
Create a list with values	my_list = [11, "Python", 12.5]
Access an element	my_list[2]
Modify an element	my_list[2] = newvalue
Append an element	my_list.append(element)

Iterate over a list

```
for element in my_list:
    statements
```

Create a Class

```
class class_name:
    statements
```



The init method

```
def __init__(self, params):  
    statements
```

Import a class

```
from class_name import *
```

Objects

Creation `variable_name = class_name(params)`

Access of an attribute `variable_name.attribute_name`

Use of a method `variable_name.method_name(params)`



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