

Python 3.7 Reference Guide

(Source: <https://docs.python.org/3.7/library/index.html>)



Compound Statements

1. The **if** statement:

```
if_stmt -> "if" expression ":" suite
           ("elif" expression ":" suite)*
           ["else" ":" suite]
```

2. The **while** statement:

```
while_stmt -> "while" expression ":" suite
              ["else" ":" suite]
```

3. The **for** statement:

```
for_stmt -> "for" target_list "in" expression_list ":" suite
            ["else" ":" suite]
```

Boolean Operations

Operation	Result
x or y	if x is false, then y, else x
x and y	if x is false, then x, else y
not x	if x is false, then True, else False

Numeric Operations

Operation	Result	Operation	Result
x + y	sum of x and y	abs(x)	absolute value of x
x - y	difference of x and y	int(x)	x converted to integer
x * y	product of x and y	float(x)	x converted to floating point
x / y	quotient of x and y	pow(x, y)	x to the power y
x // y	floored quotient of x and y	x ** y	x to the power y
x % y	remainder of x / y		

Comparison Operations

Operation	Meaning	Operation	Meaning
<	strictly less than	==	equal
<=	less than or equal	!=	not equal
>	strictly greater than	is	object identity
>=	greater than or equal	is not	negated object identity