

Basic Syntax

Adding Comments	# Followed by Text
Specifying Variables	x = 3 or x, y = (1, 2)
Specifying Equality	==
Line Continuation	\
Printing Strings	print("Text")
Specifying Inequality	!=

Variable Types

Integers	int(x) --> 5
Floats	float(x) --> 5.0
Strings	string(x) --> Text

Arithmetic Operators

Addition	+
Subtraction	-
Multiplication	*
Division	/
Exponents	**
Logarithms	math.log(x/y)
Radicals	math.sqrt(x)

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Comparison Operators

Greater Than	>
Less Than	<
Greater Than or Equal	≥
Less Than of Equal	≤

Logical Operators

and	Two True Statements
or	One True One False
not	Two False Statements

Conditional Statements

```
if x > 5:
    print("x is bigger ")
elif x < 5:
    print("x is smaller")
else:
    print("x is equal")
```

if sets condition, elif sets if first condition not true, else sets condition if remainder is false

Defining a Function

Option 1:

```
def plus_five(x):
    return x+5
plus_five(x)
```

 Option 2:

```
def five_plus(x):
    result = x+5
    return result
plus_five(x)
```

Defined function name, returned function form, executed function. We can print text as well as results by using the print function

Composite Functions

```
def wage(hrs):
    return 25*hrs
def with_bonus(hrs):
    return 50 + wage(hrs)
wage(40), with_bonus(40)
(1000, 1050)
```

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