

Statement

```
x = 2  
y = 3+x  
a = True + 4  
colors = ['red',  
          'blue',  
          'green']  
print("x is", x)  
print("y is", y)  
print("a:", a)  
print("b:", b)
```

Statement in a line

Statement in several lines

Statement is an instruction that a Python interpreter can execute.
It can make up a line (or several lines) of Python code

Expressions

Many statements are expressions.

- an expression combines **objects and operators** to form expressions
- It has a **value**, which has a **type**
- syntax for a simple expression
 - `<object> <operator> <object>` **`x+y, 3+4, 2+x`**

An object could be a number, variable...



Abstracting Expressions

- why **use variables in** expressions?
 - to **reuse variable** instead of values
 - easier to **change code later**, you may change the value of expression to achieve different results

```
pi = 3.14159 #expression
radius = 2.2 #expression
area = pi*(radius**2) #expression
radius = radius+1
```