Expressions and Statements

Expression

An expression is a combination of values, variables, and operators.

```
1  >>> 5 + 5 # addition expression
2  10
3  >>> n = 17 # assignment statement (with a numeric literal 17 as an expression)
4  >>> n # variable expression
5  17
6  >>> n > 10 # boolean expression
7  True
```

When you execute an expression on Python interpreter prompt, the interpreter **evaluates** it. Evaluating an expression means to find the value of the expression.

Statement

A statement is a unit of code that has an effect, like creating a variable or displaying a value.

An **expression** is a **part** of a **statement**. The expression gets evaluated first, and then the statement gets executed.

- Line #3 is an assignment statement where numeric literal 17 is an expression (which is a part of the statement).
- Line #4 is a print statement where variable n is an expression (which is a part of the statement).
- Line #5 is a print statement where n == 3 is an expression (which is a part of the statement).

Main Takeaways

An **expression** is a combination of values, variables, and operators (e.g. +, -, /, *, =, ==) that Python **evaluates**

A **statement** is a unit of code that has an effect or carries out certain actions which Python **executes**.