KodoPy

Python First Program

```
1   # C:\script.py
2   a = 10
3   b = 20
4   result = a + b
5   print(result)
```

```
1   # C:\script.py
```

This line contains a **comment** which is indicated by the **#** symbol. A **comment** is how the programmer can annotate the code file and create notes for themselves or others. **Comments** have nothing to do with the actual program itself. While the Python Interpreter is reading the line of code, once it encounters a **#** symbol it stops reading that line of code and goes to the next line.
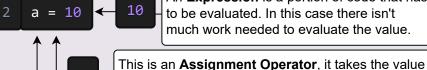
```
5      print(result)
```

This **Statement** contains a function call. The **print** function is a built-in function recognized by python without having to import anything into the source code. The **variable** result is equal to a + b and a = 10 and b = 20, this means that result must be equal to 30. You call functions in python by typing out the function **identifier** and then adding open and close parentheses. Some functions allow you to pass in variables and in this case we passed in the **variable** result. Print will display 30 in the terminal.

The entire line is called a **Statement**.

```
2   a = 10
```

```
10
```

An **Expression** is a portion of code that has to be evaluated. In this case there isn't much work needed to evaluate the value.

```
=
```

This is an **Assignment Operator**, it takes the value of the **Expression** and assigns it to the variable.

```
a
```

The **Identifier** is the name of a **Variable.**
A **Variable** is an **Identifier** that referes to a value in memory.

```
3   b = 20
4   result = a + b
```

Lines 3 and 4 are just like line 2. The exception being line 4 has more work required in the **Expression,** the **Addition Operator**, will add the two values stored in the **Variables**, a and b.