

Python Programming Language > Basic Statements

Let's learn about Python programming and Python statements. Python is used to create websites, develop software, complete data analysis, and build applications like Netflix, Instagram, etc.

Imagine a time where you followed a set of instructions.

Maybe you were dancing to the Cha Cha Slide at a party.

Right foot, let's stomp

Left foot, let's stomp

Everyone followed the song's instructions and executed the Cha Cha Slide!

- Python is a programming language used to write instructions that a computer reads and executes.
- Python statements instruct a computer to carry out a task. Python statements are one step in a set of instructions.

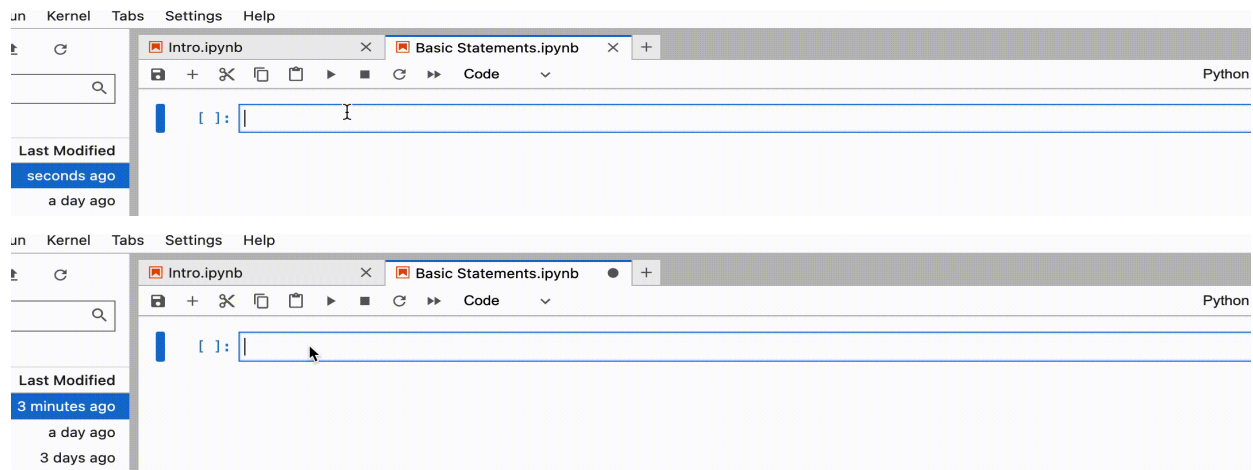
We will go over 3 different Python statements today:

1. Print statements
2. Assignment statements
3. If-else statements

Print Statements

- Print statements instruct the computer to print a statement to the computer screen.
- The print statement is written in lowercase. Python is case sensitive.
- `print` is followed by parenthesis `()`.
- The print statement must be inside single `"` or double `""` quotations.
 - `print ('My name is Ollie')`
 - `print ("My name is Ollie")`

Figure 1: Basic Print Statements



Assignment Statements

- Assignment statements create a reference using a name or variable to store an expression.
- Assignment statements contain 3 parts.
 - The **reference name** can be a letter or word.
 - The assignment **operator** will always be `=`.
 - The **expression** is assigned a value or term.
 - `"` or `'''` must be used with written expressions.

Table 1: Assignment Statements

| Reference Name | Operator | Expression |
|----------------|----------|------------|
| n | = | 12 |
| Reference Name | Operator | Expression |
| month | = | 'January' |

Figure 2: Basic Assignment Statements

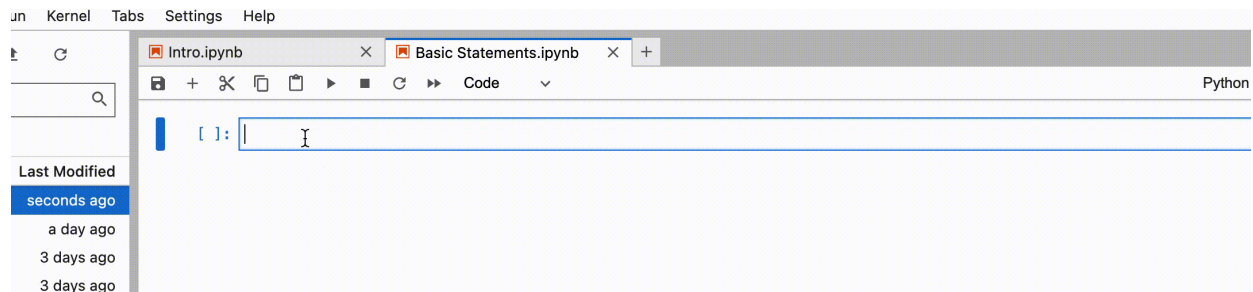


Figure 2 uses the `print` statement after the assignment statement to print `n` and `month` to the screen. The output is 12 and January.

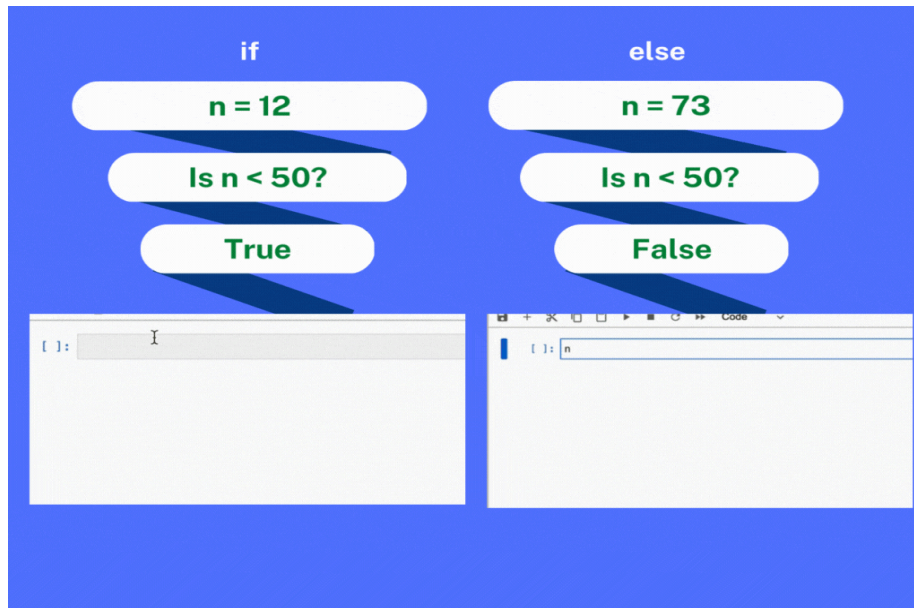
If-else Statements

- If-else statements are decision making statements.
- They are true or false.
- If the statement is true, the `if` statement will run.
- If the statement is false, the `else` statement will run.
- The `if` and `else` must be followed by a colon `:`.

If-else statements are written like this:

```
n=12
if n<50:
    print("Less than 50")
else:
    print("Greater than 50")
```

Figure 3: Basic If-else Statements



Now, let's write some code!