

Comprehensive Python Programming

From Fundamentals to Advanced

(21 Oct 2024 - 13 Nov 2024)

IHUB DivyaSampark IIT Roorkee
and

Ritvij Bharat Pvt. Ltd.

Statements

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If, elif, else

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Control Flow

- We often only want certain code to execute when a particular condition has been met.
- For example, **if** my dog is hungry (some condition), then I will feed the dog (some action).

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- To control this flow of logic we use some keywords:
 - **if**
 - **elif**
 - **else**

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- Control Flow syntax makes use of colons and indentation (whitespace).
- This indentation system is crucial to Python and is what sets it apart from other programming languages.

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Syntax of an **if** statement

if **some_condition:**

execute some code

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Syntax of an **if/else** statement

if **some_condition:**

execute some code

else:

do something else

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Syntax of an **if/else** statement

if **some_condition:**

execute some code

elif **some_other_condition:**

do something different

else:

do something else

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Let's explore these concepts!

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For Loops

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Many objects in Python are “iterable”, meaning we can iterate over every element in the object.

Such as every element in a list or every character in a string.

We can use for loops to execute a block of code for every iteration.

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The term **iterable** means you can “iterate” over the object.

For example you can iterate over every character in a string, iterate over every item in a list, iterate over every key in a dictionary.

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```
my_iteration = [1,2,3]
```

```
for x in my_iteration:
```

```
    print(x)
```

```
>> 1
```

```
>> 2
```

```
>> 3
```

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Let's code!

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