

Sep. 25, 2012

[□ Basics \(/basics/\)](#) [□ If..elif...else \(/if-elif-else/\)](#)

Conditional statements in Python

Conditional statements

In programming, very often we want to check the conditions and change the behavior of the program.

How to use Conditional Statements

We can write programs that has more than one choice of actions depending on a variable's value.

Perhaps the most well-known statement type is the if statement.

You use the if statement to perform one action if one thing is true, or any number of other actions, if something else is true.

We must use indentation to define that code that is executed, based on whether a condition is met.

To compare data in Python we can use the comparison operators, find in this post (<http://www.pythonforbeginners.com/boolean/boolean/>)

If Statement

The syntax of the if statement is:

```
if expression:
    statement(s)
```

Elif Statement

Sometimes there are more than two possibilities, in that case we can use the elif statement

It stands for "else if," which means that if the original if statement is false and the elif statement is true, execute the block of code following the elif statement.

The syntax of the if...elif statement is:

```
if expression1:
    statement(s)
elif expression2:
    statement(s)
elif expression3:
    statement(s)
else:
    statement(s)
```

Else Statement

An else statement can be combined with an if statement.

An else statement contains the block of code that executes if the conditional expression in the if statement resolves to 0 or a false value.

The else statement is an optional statement and there could be at most only one else statement following if.

The syntax of if..else is:

```
if expression:
    statement(s)
else:
    statement(s)
```

Examples

This script will compare two strings based on the input from the use

```
# This program compares two strings.

# Get a password from the user.
password = raw_input('Enter the password: ')

# Determine whether the correct password
# was entered.

if password == 'hello':
    print'Password Accepted'

else:
    print'Sorry, that is the wrong password.'
```

Another Example

Let's show one more examples, in which will also make use of the elif statement.

```
#!/usr/bin/python

number = 20

guess = int(input('Enter an integer : '))

if guess == number:
    print('Congratulations, you guessed it.')

elif guess < number:
    print('No, it is a little higher than that')

else:
    print('No, it is a little lower than that')
```

Recommended Python Training – DataCamp (https://www.datacamp.com?tap_a=5644-dce66f&tap_s=75426-9cf8ad)

For Python training (https://www.datacamp.com?tap_a=5644-dce66f&tap_s=75426-9cf8ad), our top recommendation is DataCamp.

Datacamp (https://www.datacamp.com?tap_a=5644-dce66f&tap_s=75426-9cf8ad) provides online interactive courses that combine interactive coding challenges with videos from top instructors in the field.

Datacamp has beginner to advanced Python training that programmers of all levels benefit from.



Tweet

Like 2

Share

Read more about:

- ☐ Basics (/basics/)
- ☐ If..elif...else (/if-elif-else/)

Did You Know? _____

Tech Facts to Help Keep You Plugged in

Viktor Hanacek



0 Comments Pythonforbeginners.com

Login

Recommend 2 Share

Sort by Best



Start the discussion...

Be the first to comment.

ALSO ON PYTHONFORBEGINNERS.COM

How to use ConfigParser in Python

1 comment • 4 years ago •

Dre Peters — If found a typo: database_list_command = 'mysql -u %s -p%s -h %s --silent -N -e "show databases"' % ...

Tweet Search using Python

1 comment • 4 years ago •

Tweetoh0lic — its not working :/

How to use Pip and PyPI

1 comment • 4 years ago •

Andrew M. Sheppard — IIRC, 'pip bundle' has been superseded by 'wheel' https://wheel.readthedocs.o... Thanks for ...

Get the Geo Location of an IP Address

1 comment • 4 years ago •

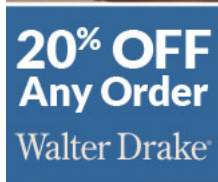
grue — Seems to be behaving strangely on python3 even after bs4 is installed. Anyone else having issues?

Subscribe Add Disqus to your site Add Disqus Add Privacy

Disclosure of Material Connection: Some of the links in the post above are "affiliate links." This means if you click on the link and purchase the item, I will receive an affiliate commission. Regardless, PythonForBeginners.com only recommend products or services that we try personally and believe will add value to our readers.

Search

SEARCH



Categories