IIT Madras

Team – 21

Instructor Resources Demo

Strings Strings in python are surrounded by either single quotation marks, or double quotation marks. 'hello' is the same as "hello". You can display a string literal with the print() function: ExampleGet your own Python Server print("Hello") print('Hello') Try it Yourself » **Quotes Inside Quotes** You can use quotes inside a string, as long as they don't match the quotes surrounding the string: Example print("It's alright") print("He is called 'Johnny'") print('He is called "Johnny"') Try it Yourself »

Assign String to a Variable

Assigning a string to a variable is done with the variable name followed by an equal sign and the string:

Example

a = "Hello" print(a)

Try it Yourself »

Multiline Strings

You can assign a multiline string to a variable by using three quotes:

Example

You can use three double quotes:

a = """Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.""" print(a)

Try it Yourself »

Or three single quotes:

Example

a = "'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.''' print(a)

Try it Yourself »

Note: in the result, the line breaks are inserted at the same position as in the code.

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Strings are Arrays

Like many other popular programming languages, strings in Python are arrays of bytes representing unicode characters.

However, Python does not have a character data type, a single character is simply a string with a length of 1.

Square brackets can be used to access elements of the string.

Example

Get the character at position 1 (remember that the first character has the position 0):

a = "Hello, World!"
print(a[1])

Try it Yourself »

Looping Through a String

Since strings are arrays, we can loop through the characters in a string, with a for loop. Example Loop through the letters in the word "banana": for x in "banana": print(x) Try it Yourself » Learn more about For Loops in our Python For Loops chapter. String Length To get the length of a string, use the len() function. Example The len() function returns the length of a string: a = "Hello, World!" print(len(a)) Try it Yourself » **Check String** To check if a certain phrase or character is present in a string, we can use the keyword in. Example Check if "free" is present in the following text: txt = "The best things in life are free!" print("free" in txt) Try it Yourself » Use it in an if statement: Example Print only if "free" is present: txt = "The best things in life are free!" if "free" in txt: print("Yes, 'free' is present.")

Learn more about If statements in our Python If...Else chapter.

Try it Yourself »

Check if NOT

To check if a certain phrase or character is NOT present in a string, we can use the keyword not in.

Example

Check if "expensive" is NOT present in the following text:

txt = "The best things in life are free!"
print("expensive" not in txt)

Try it Yourself »

Use it in an if statement: