

String. format example python

I'm not robot!

```

Python Shell
File Edit Shell Debug Options Windows Help

>>> class Python:
    def __init__(self):
        self.stomach = []
    def eat(self, food):
        self.stomach.append(food)
    def poop(self):
        if len(self.stomach)>0:
            return self.stomach.pop(0)
    def __repr__(self):
        return "Snake @ "+str(id(self))

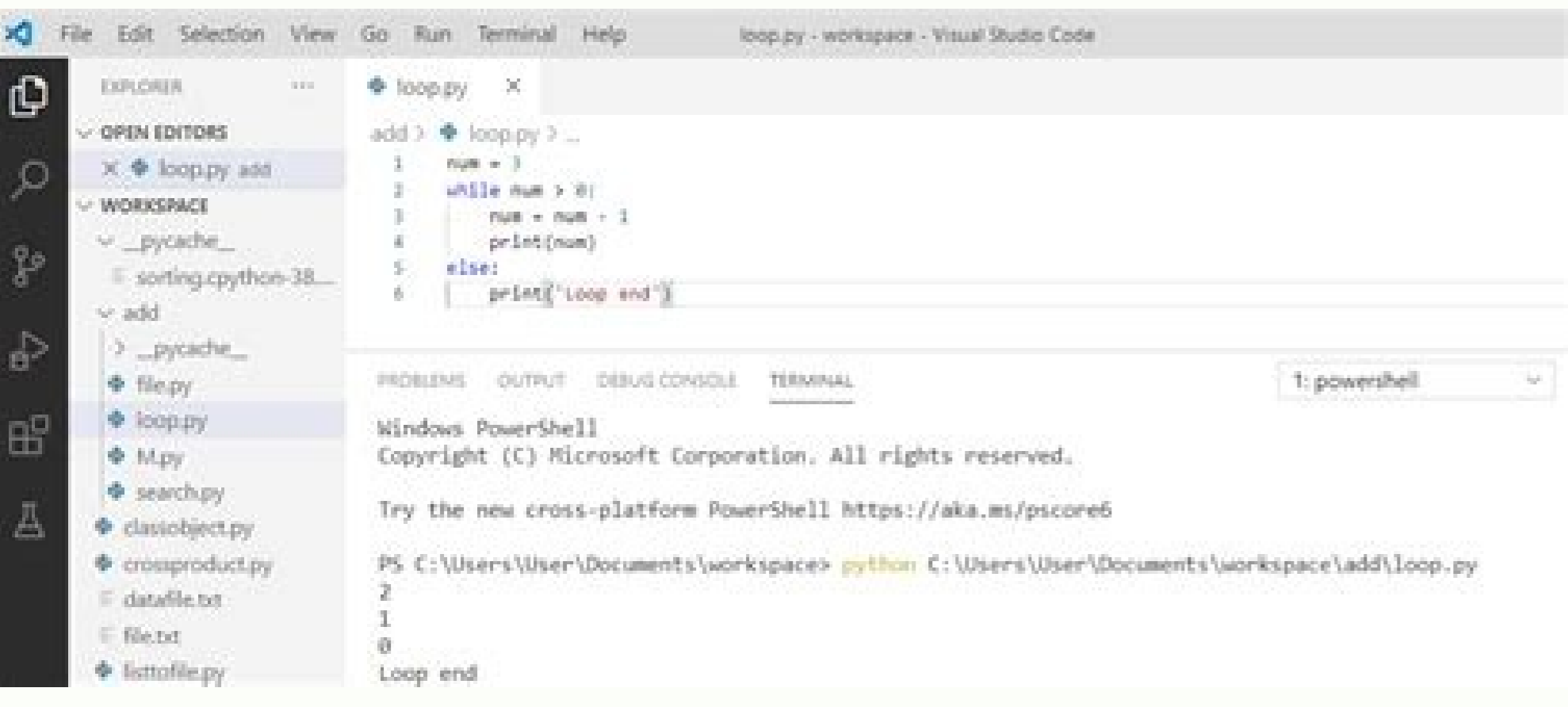
>>> psf_snake = Python()
>>> psf_snake
Snake @ 18205808
>>> psf_snake.eat("Pony")
>>> psf_snake.eat("Spam")
>>> psf_snake.stomach
['Pony', 'Spam']
>>> psf_snake.poop()
'Pony'
>>>
Ln: 203 Col: 4

```

Metrics	Python	C
Introduction	Python is an interpreted, high-level, general-purpose programming language.	C is a general-purpose, procedural computer programming language.
Speed	Interpreted programs execute slower as compared to compiled programs.	Compiled programs execute faster as compared to interpreted programs.
Usage	It is easier to write a code in Python as the number of lines is less comparatively.	Program syntax is harder than Python.
Declaration of variables	There is no need to declare the type of variable. Variables are untyped in Python. A given variable can be stuck on values of different types at different times during the program execution	In C, the type of a variable must be declared when it is created, and only values of that type must be assigned to it.
Error Debugging	Error debugging is simple. This means it takes only one in instruction at a time and compiles and executes simultaneously. Errors are shown instantly and the execution is stopped, at that instruction.	In C, error debugging is difficult as it is a compiler dependent language. This means that it takes the entire source code, compiles it and then shows all the errors.
Function renaming mechanism	Supports function renaming mechanism i.e., the same function can be used by two different names.	C does not support function renaming mechanism. This means the same function cannot be used by two different names.
Complexity	Syntax of Python programs is easy to learn, write and read.	The syntax of a C program is harder than Python.
Memory-management	Python uses an automatic garbage collector for memory management.	In C, the Programmer has to do memory management on their own.
Applications	Python is a General-Purpose programming language.	C is generally used for hardware related applications.
Built-in functions	Python has a large library of built-in functions.	C has a limited number of built-in functions.
Implementing Data Structures	Gives ease of implementing data structures with built-in insert, append functions.	Implementing data structures requires its functions to be explicitly implemented
Pointers	No pointers functionality available in Python.	Pointers are available in C.

```
str1 = "Hello and welcome to the world of python!"
str2 = str1.encode()
print(str2)

str1 = "Hello python!!"
print(str1.encode("ascii", "replace"))
```



Python print string format example. Python f string format example. String format example python. Python string format function example. Python logging format string example. Python 2.7 print format string example. Python3 string format example. Python 2.7 format string example.

Python String format() is a function used to replace, substitute, or convert the string with placeholders with valid values in the final string. It is a built-in function of the Python string class, which returns the formatted string as an output. The placeholders inside the string are defined in curly brackets. For example, "Welcome to Guru99" .format("value here") . In this tutorial, you will learn: Syntax of format() function in Python templating: string.format(val1, val2, ...). Parameters: val1, val2, The values that need to replace in the given template string that has placeholders in the form of curly brackets {}. The placeholders can be a string, key/value pair, integers, floating-point numbers, characters, etc. Return value: It will return the final string, with valid values replaced in place of the placeholders given in curly brackets. Placeholders The placeholders in the template string are represented using curly brackets, e.g. {}. The placeholder can be empty {}, or it can have a variable for e.g. {name} , or it can have a number index e.g. {0} , {1} etc. How string format() works? The Python String format() method will scan the original strings for placeholders. The placeholders can be empty curly brackets {}, positional arguments i.e the string can have placeholders with index 0, 1 for e.g. {0}, {1} etc. For keyword arguments the variable name will be present inside the curly brackets for e.g. {name}, {age}. In the case of empty curly brackets, the values from the format will be replaced inside the curly brackets in sequence. The first value will be replaced with the first empty curly bracket, followed by the next one. For positional arguments, the index will start from 0 and so on. The values will be available in format separated with commas, and the 0th value will point to the first value inside format and so on. For Keyword arguments, i.e., when you use a variable inside your placeholders, you can have the order of values inside the format as you need. The order does not matter here as the values will be replaced based on the variable name present in the format(). Here are a few examples of how to use placeholders inside a string as empty, positional, and using keywords or variables. Example: Empty Placeholder replaced with a string value in the example below, the string has empty curly brackets {}. The value given to the format will get replaced inside the curly brackets {}. The value that we want to be replaced is a string. Example: Using String Formatting in Python, we want the curly brackets {} to be replaced with a string value. The value is given to format("Guru99"). On execution, the curly brackets {} is replaced with Guru99, and you will get the final string as Welcome to Guru99 tutorials. print("Welcome to {} tutorials".format("Guru99")) Output: Welcome to Guru99 tutorials Example: Empty Placeholder replaced with a numeric value In the example below, we want the numeric value to be replaced inside the original string. The curly brackets {} are added to the place where you need the numeric value. When it executes, the empty curly brackets {} is replaced with the numeric value. Example: You can also make use of format() to insert numbers inside your string. The example will show how to replace the empty Placeholder {} with number 99 present inside format(). print("Welcome to Guru{} Tutorials".format("99")) Output: Welcome to Guru99 Tutorials Example: Using variable or keyword arguments inside the Placeholder It is also possible to make use of variables inside the curly brackets, as shown in the example below. The variables are defined inside format(). Therefore, when it executes, the value assigned to the variable is replaced inside the original string. Example: You can use variables inside curly brackets for example {name} {num}. The values for name and num variable are available inside format i.e. format(name="Guru", num="99"). The values given to name and num will be replaced inside the {name} and {num}. print("Welcome to {name} {num} Tutorials".format(name="Guru", num="99")) Output: Welcome to Guru99 Tutorials Example: Using index or positional arguments inside the Placeholder The values can be replaced using indexes like 0, 1, 2 inside the placeholders. The value will be picked in order from the format(), as shown in the example below. Example: print("Welcome to {0} {1} Tutorials".format("Guru", "99")) Output: Welcome to Guru99 Tutorials Example: Using multiple placeholders inside a string In this example, we are going to use multiple empty placeholders. Example: The string used in the example has multiple empty placeholder and each placeholder will refer to a value inside format(). The first value will be replaced for the first placeholder and so on. print("{} is {} new kind of {} experience!".format("Guru99", "totally", "learning")) Output: Guru99 is totally new kind of learning experience! Formatting inside Placeholders You have seen that it is possible to have Placeholder as empty, with a variable or an index. It is also possible that you can apply Python String Formatting inside the Placeholder. Here is the list of formats Format Description Example: d It will give the output in decimal format when used inside the placeholder print("The binary to decimal value is : {d}").format(0b0011) Output: The binary to decimal value is : 3 b It will give the output in binary format when used inside the placeholder print("The binary value is : {b}").format(500) Output: The binary value is : 111110100 e It will give the output in scientific format when used inside the placeholder, the exponent e in the output will be lowercase. print("The scientific value is : {e}").format(40) Output: The scientific format value is : 4.000000e+01 :E It will give the output in scientific format when used inside the placeholder, the exponent E in the output will be uppercase print("The scientific value is : {E}").format(40) Output: The scientific value is : 4.000000E+01 :f This will output a fixed-point number format. By default, you will get the output of any number with six decimal places. In case you need up to 2 decimal places, use it as. 2f i.e., a period (.) in front of 2f print("The value is : {f}").format(40) Output: The value is : 40.000000 Example: Showing output upto 2 decimal places. print("The value is : {:.2f}").format(40) Output: The value is: 40.00 :o This will output octal format print("The value is : {-o}").format(500) Output: The value is : 764 :x This will output hex format in lowercase print("The value is : {-x}").format(500) Output: The value is : 1f4 :X This will output hex format in uppercase. print("The value is : {-X}").format(500) Output: The value is : 1F4 :n This will output number format. print("The value is : {-n}").format(500.00) Output: The value is : 500 :% This will give the output in a percentage format. By default it will give 6 decimal places for the percentage output, in case you don't want any decimal value you can use period with 0 i.e. {:.0%}. print("The value is : {:%}").format(0.80) Output: The value is : 80.000000% This example shows how to skip the decimal places by using {:.0%} inside the placeholder. print("The value is : {:.0%}").format(0.80) Output: The value is: 80% : This will output an underscore as a thousand separator. It is available from python 3.6+. print("The value is {:_}").format(1000000) Output: The value is : 1_000_000 ; This will output comma as a thousands separator print("The value is : {,}").format(1000000) Output: The value is : 1,000,000 The comma(,) is added , as a thousand separator as shown in the output. : This will add a space before any positive numbers This example shows how to add space or padding before the given number. The number 5 indicates the space count you want before the number. print("The value is: {5}").format(40) Output: The value is: 40 - This will add a minus sign before negative numbers The example shows how to get the output with a minus (-) sign before the number using {-}, print("The value is: {-}").format(-40) Output: The value is: -40 :- You can use plus sign to indicate the number is positive The example shows how to get the output with a plus (+) sign before the number using {+}, print("The value is: {+}").format(40) Output: The value is: +40 := The equal to is used to place the +/- sign on the left side. The example shows how to get the output with a plus (+/-) sign before equal to sign using {=}, print("The value is {=}").format(-40) Output: The value is -40 :^ This will center align the final result The example shows to use {} to center align the text. The number 10 is used to add 10 spaces to show the center-aligned when the value is replaced. print("The value {:^10} is positive value").format(40) Output: The value 40 is a positive value Here, you can use 10 that will add 10 spaces in the final text, and the value to be replaced will be center-aligned between the 10 spaces. The spaces of 10 are added just to show the center alignment of the replaced value. :-> This will right-align the final result The space of 10 is added using (>10), and the value replaced is right-aligned. print("The value {>10} is positive value").format(40) Output: The value 40 is positive value :< This will left align the final result The space of 10 is added using (<10), and the value replaced is left-aligned. print("The value {<10} is positive value").format(40) Output: The value 40 is positive value

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