




10 PYTHON INTERVIEW QUESTIONS

How to reverse a string?

Here is a simple code you can use to reverse the string with single line of code.




```
myStr="csestack"  
print(myStr[::-1])
```

Output : kcatsesc

What is __init__ method?

“__init__” is the reserved method in Python class. It is similar to the constructor in other programming languages. This method will be called the first time when a new object is created for that class. With __init__() method, you can initialize all the class attributes for that object.



```
class myClass:
    def __init__(self, value):
        print("Object initialization...")
        self.value=value

myClass myOb
```


Output : Object initialization...



What is List comprehension?

It is an advanced method of creating a list. With the single line of code, you can generate the list.

Example: Write a Python program to generate a list of the first five even numbers using the list comprehension technique.



```
obj = [x*2 for x in range(1, 6)]  
print(obj)
```

Output : [2, 4, 6, 8, 10]

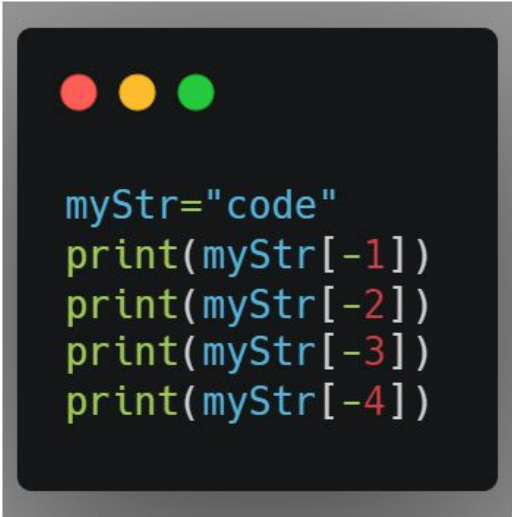


What is negative indexing in Python?

The last element in the list will be having index -1, second last element will be having index -2, and so on...

This negative indexing is useful for accessing elements from the right to left.

Similar to the list, negative indexing is used to access the character in the string.



```
myStr="code"  
print(myStr[-1])  
print(myStr[-2])  
print(myStr[-3])  
print(myStr[-4])
```

Output :


e
d
o
c



What is the reduce function?

The reduce function is used to reduce the elements in the list by applying a certain function.

Example: Write a program to find the sum of all the elements in the list using reduce function



```
from functools import reduce
objFun = lambda x,y: x+y
li=[3, 5, 7, 9]
objReduce = reduce(objFun, li)
print(objReduce)
```

Output : 24



What is the Built-in function in Python?

The functions that come predefined with the Python installation is called a built-in Python function.

You don't need to import any of the Python libraries to use the built-in functions.

If you have Python installed on your system, you can call these built-in methods.

How to take multi-line user input in Python?

It is possible using the **readlines()** method by importing sys module.

Here are three lines of code for taking multi-line user input.



```
import sys
msg = sys.stdin.readlines()
print(msg)
```




What is the difference between Iterators and generators?

Iterators and generators are the two different object types. Both these objects are used for iteration.

Unlike iterators, generators use lazy evaluation techniques (as per the explanation provided in the above question.)



What are the different types of operators in Python?

Arithmetic Operators

Relational Operators

Assignment Operators

Logical Operators

Membership Operators

Identity Operators

Bitwise Operators



What is a metaclass?

The class defines the behavior of the instances i.e. object. Metaclass defines the behavior of another class. This is the main difference between class and metaclass.

In other words, a metaclass is a class of another class.

Not every programming language supports metaclass concepts. Python has a metaclass implementation supported.

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