Python

Job Interview Questions

Python

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How does memory management works in Python?

Python's memory management is controlled by the Python Memory Manager, which allocates and manages memory in a private heap inaccessible to programmers.

Python objects reside in this heap. The language provides core API functions for managing it.

What is pickling and unpickling?

In Python, pickling is the process of serializing objects into a byte stream for storage or transmission, facilitated by the pickle module's pickle.dump() function.

Unpickling is the reverse process, where byte streams are deserialized back into objects using pickle.load(), allowing for retrieval of the original data stored

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How are arguments passed by value or by reference in python?

In Python, arguments are passed by reference, meaning a reference to the actual object is passed, allowing changes to the value of the object to affect the original object.

How is python a a dynamically typed language?

A dynamically typed language performs type checking during runtime rather than at compile time, enabling flexibility in variable types and values.

Python is an interpreted language, executes each statement line by line and thus type-checking is done on the fly, during execution which makes Python a Dynamically Typed Language.

What is lambda in Python?

Lambda in Python is an anonymous function used for short-term operations.

It can accept any number of arguments but only has a single expression. For example, a lambda function to add two numbers

```
add = lambda x,y:x+y
```

What are generators in Python?

Generators are functions that return an iterable collection of items, one at a time, in a set manner.

Generators, in general, are used to create iterators with a different approach. They employ the use of `yield` keyword rather than `return` to return a generator object.

What are Iterators in Python?

Iterators are objects that remember their state during iteration, allowing them to traverse through iterable objects like lists and strings.

They are initialized with the __iter__() method and utilize __next__() to return the next item in the iteration while pointing to the subsequent element.

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Is it possible to call parent class without its instance creation?

Yes, it's possible for a base class to be instantiated by other child classes or as a static method.

This occurs because child classes inherit from the base class, allowing them to access its attributes and methods, while static methods can be called directly without instantiation.

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