

## **About Python**

Python is a high-level programming language that is widely used for programming on a general purpose level. It features a dynamic type system and automatic memory management, with the ability to sustain multiple programming models, which include imperative, object-oriented, functional programming and procedural styles. Python was built by Guido van Rossum and made available for use in 1991.

Python is quite popular and it has interpreters for several operating systems, giving room for its code to run on a broad diversity of systems. It comes with a big and complete standard library. The reference implementation of Python (CPython) is open source software and it is handled by the Python Software Foundation (a Non-Profit Organization).

## **Python interview questions and answers**

Here are a few Python interview questions and answers

### **1.What is PEP8?**

Ans.This is a coding convention, a set of recommendation, on how best to write Python code and improve its readability.

### **2.How do we interpret Python?**

Ans. Python language is an interpreted language. The program runs directly from the source code and converts the source code that the programmer writes into an immediate language that is then translated into a language that needs to be executed by a machine.

### **3.What is a Python decorator?**

Ans. A Python decorator is a specific change that is made in Python syntax to effortlessly modify functions.

### **4.What is the difference between list and tuple?**

Ans. While list is mutable, tuple is not. One can hash tuple, for instance, as a key for dictionaries.

### **5.What are Dict and List Comprehensions?**

Ans. These are syntax constructions that help to simplify the creation of a dictionary or list based on iterable that already exists.

### **6.What is Lambda in Python?**

Ans. Lambda is a single expression anonymous function that is mostly used as inline function.

### **7.What are iterators?**

Ans. Iterators are used for iterating a group of elements, containers like list.

### **8. What is slicing?**

Ans. Slicing is a mechanism that helps you in selecting a range of items from sequence types such as tuple, string, list, etc.

### **9.What is docstring?**

Ans. Docstring is another name for a Python documentation string. It is way to document Python modules, classes and functions.

### **10. What is pass in Python?**

Ans. Pass simply stands for, no-operation Python statement. It is a place holder in compound statement, where a blank should be left, with nothing written there.

**11. Why do lambda forms in Python not have statements?**

Ans. A lambda form does not have statements since it is used in making new function object and returning them at runtime.

**12. What is unittest?**

Ans. Unittest is the unit testing framework in Python. It aids in automation testing, sharing of setups, aggregation of tests into collections, shutdown code tests, etc.

**13. What is the difference between Xrange and range?**

Ans. While Xrange returns xrange objects, range on the other hand, returns the list and makes use of the same memory irrespective of the range size.

**14. How do you delete a file in Python?**

Ans. You simply make use of the command `os.remove(filename)` or `os.unlink(filename)`

**15. What is the use of the split function in Python?**

Ans. The split function in Python helps in breaking a string into shorter strings by using the defined separator. It provides a list of the words contained in the string.

I have just added the questions only ( not their answers ) for a quick reference. You can find the relevant answers from other tutorials available on the net by searching. Make sure prepare the answers for all of these questions added here.