

# Top Python Interview Questions And Answers

Go through these Python interview questions and land your dream job in Data Science, Machine Learning or just Python coding. Here we have compiled the questions on the topics like Lists Vs. Tuples, inheritance example, multithreading, important Python modules, difference between NumPy & SciPy, Tkinter GUI, Python as a OOP & functional programming language, Flask database connection and some important sample codes. Learn and get certification in Python from Intellipaat Python course (<https://intellipaat.com/python-for-data-science-training/>) and excel in your career.

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By Naveen



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## Top Answers to Python Interview Questions

### 1. Compare between Java and Python.

Criteria	Java	Python
Ease of use	Good	Very Good
Speed of coding	Average	Excellent
Data types	Static typed	Dynamically typed
Data Science & machine learning applications	Average	Very Good

### 2. What is Python?

Python (<https://intellipaat.com/blog/python-certification/>) is a high-level, interpreted, interactive, and object-oriented scripting language. Python is designed to be highly readable. It uses English keywords frequently, whereas other languages use punctuation, and it has fewer syntactical constructions than other languages.

### 3. What are the key features of Python?

- Python is an interpreted language, so it doesn't need to be compiled before execution unlike languages like C.
- Python is dynamically typed, so there is no need to declare a variable with the data type. Python Interpreter will identify the data type on the basis of the value of the variable.

For example, if you run the following code line, it will run without any error:

```
a = 100  
a = "Intellipaat"
```

- Python follows object-oriented programming paradigm with an exception of having access specifiers. Other than access specifiers (public and private keywords), Python has classes, inheritance, and all other usual OOPs concepts.
- Python is a cross-platform language which means that a Python program written on a Windows system will also run on a Linux system with little or no modifications at all.
- Python is literally a general-purpose language which means that Python finds its way in various domains such as Web Application Development, Automation, Data Science, Machine Learning, and more.

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#### 4. What is the purpose of PYTHONPATH environment variable?

PYTHONPATH has a role similar to PATH. This variable tells Python Interpreter where to locate the module files imported into a program. It should include Python source library directory and the directories containing Python source code. PYTHONPATH is sometimes

preset by Python Installer.

## 5. What is the purpose of PYTHONSTARTUP, PYTHONCASEOK, and PYTHONHOME environment variables?

- PYTHONSTARTUP: It contains the path of an initialization file containing Python source code. It is executed every time you start the interpreter. It is named as .pythonrc.py in Unix, and it contains commands that load utilities or modify PYTHONPATH.
- PYTHONCASEOK: It is used in Windows to instruct Python to find the first case-insensitive match in an import statement. Set this variable with any value to activate it.
- PYTHONHOME: It is an alternative module search path. It is usually embedded in PYTHONSTARTUP or PYTHONPATH directories to make switching of module libraries easy.

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## 6. What are the supported data types in Python?

Python has five standard data types:

- Numbers
- Strings
- Lists
- Tuples
- Dictionaries

## 7. What is the difference between lists and tuples?

Lists	Tuples
Lists are mutable, i.e., they can be edited.	Tuples are immutable (Tuples are lists which cannot be edited).
Lists are usually slower than tuples.	Tuples are faster than lists.
Syntax: list_1 = [10, 'Intellipaat', 20]	Syntax: tup_1 = (10, 'Intellipaat', 20)

## 8. How is memory managed in Python?

- Memory in Python is managed by Python **private heap space**. All Python objects and data structures are located in a private heap. This private heap is taken care of by Python Interpreter itself, and a programmer doesn't have any access to this private heap.
- Python memory manager takes care of the allocation of Python private heap space.
- Memory for Python private heap space is made available by Python's inbuilt garbage collector which recycles and frees up all the unused memory.

## 9. Explain **Inheritance in Python** with an example.

As Python follows an object-oriented programming paradigm, **classes in Python have the ability of inheriting the properties of another class**. This process is known as inheritance. Inheritance provides the code **reusability** feature. The class that is being inherited is called a **super-class** and the class that inherits the other class is called a **derived** or **child** class. Following types of inheritance are supported in Python:

1. **Single inheritance**: When a class inherits only one super class
2. **Multiple inheritance**: When a class inherits multiple super classes
3. **Multilevel inheritance**: When a class inherits a super class and then another class inherits this derived class forming a 'parent, child, and grandchild' class structure
4. **Hierarchical inheritance**: When one super class is inherited by multiple derived classes

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## 10. What is a **dictionary in Python**?

Python dictionary is one of the supported data types in Python (<https://intellipaat.com/tutorial/python-tutorial/datatypes-in-python/>). It is an unordered collection of elements. The elements in dictionaries are stored as key-value pairs. Dictionaries are indexed by keys.

For example, we have a dictionary named 'dict'. It contains some keys: Country, Capital along with their corresponding values: India and New Delhi.

```
dict={'Country':'India','Capital':'New Delhi', }
```

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## 11. Can you write an efficient code to count the number of capital letters in a file?

The normal solution for this problem statement would be as follows:

```
with open(SOME_LARGE_FILE) as countletter:  
    count = 0  
    text = countletter.read()  
    for character in text:  
        if character.isupper():  
            count += 1
```

To make this code more efficient, the whole code block can be converted into a one-liner code using generator expression. Then, the equivalent code line for the above code block would be:

```
count = sum(1 for line in countletter for character in line if character.isupper())
```

## 12. Write a code to sort a numerical list in Python.

The following code can be used to sort a numerical list in Python:

```
list = ["2", "5", "7", "8", "1"]  
list = [int(i) for i in list]  
list.sort()  
print (list)
```



## 13. How will you reverse a list in Python?

`list.reverse()`: This function reverses objects of list.



(<https://intellipaat.com/python-for-data-science-training/>)

#### 14. How will you remove the last object from a list?

```
list.pop(obj=list[-1]):
```

Here, '-1' represents the last element of the list. The pop function removes and returns the last object (or obj) from the list.

#### 15. What are negative indexes and why are they used?

To access an element from ordered sequences, we simply use the index of the element, which is the number of the position of that element. The index usually starts from 0, meaning that the first element has the index 0 and the second has 1, and so on.

When we use the index to access elements from the end of a list, it's called reverse indexing. In reverse indexing, the indexing of elements start from the last element with the index number being '-1'. The second last element has the index '-2', and so on. These indexes used in reverse indexing are called negative indexes.

#### 16. What are `split()`, `sub()`, and `subn()` methods in Python?

These methods belong to Python RegEx 're' module and are used to modify strings.

- `split()`: This method is used to split a given string into a list.
- `sub()`: This method is used to find a substring where a regex pattern matches and then it replaces that matched substring with a different string.
- `subn()`: This method is similar to the `sub()` method, but it also returns the new string, along with the number of replacements.

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#### 17. How are range and xrange different from one another?

Functions in Python, `range()` and `xrange()` are used to iterate a fixed number of times in a for loop. Functionality-wise, both of these functions are the same. Difference comes when talking about Python version support for these functions and their return values.

The <code>range()</code> Method	The <code>xrange()</code> Method
In Python 3, <code>xrange()</code> is not supported; instead the <code>range()</code> function is used to iterate in for loops.	The <code>xrange()</code> function is used in Python 2 to iterate in for loops.
It returns a list.	It returns a generator object as it doesn't really generate a static list at the run time.
It takes more memory as it keeps the entire list of iterating numbers in memory.	It takes less memory as it keeps only one number at a time in memory.

## 18. Define pickling and unpickling in Python.

Pickling is the process of converting Python objects such as lists, dicts, etc. into a character stream. This is done using a module named `pickle`, hence the name pickling.

The process of retrieving the original Python object from the stored string representation, which is the reverse of the pickling process, is called unpickling.

## 19. What is a `map` function in Python?

The `map()` function in Python has two parameters, function and iterable. The `map()` function takes a function as an argument and then applies that function to all the elements of an iterable, passed to it as another argument. It returns an object list of results.

For example:

```
def calculateSq(n):  
    return n*n  
numbers = (2, 3, 4, 5)  
result = map(calculateSq, numbers)  
print(result)
```



## 20. Write a code to get indices of N maximum values in a `NumPy` array.

We can get the indices of N maximum values in a NumPy array using the below code:

```
import numpy as np
ar = np.array([1, 3, 2, 4, 5, 6])
print(ar.argsort()[-3:][::-1])
```

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## 21. What is a Python module?

Modules are independent Python scripts with .py extension that can be reused in other Python codes or scripts using the import statement. A module can consist of functions, classes, and variables, or some runnable code. Modules not only help in keeping Python codes organized but also in making codes less complex and more efficient. The syntax to import modules in Python codes is as follows:

```
import module_name # include this code line on top of the script
```

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## 22. What do file-related modules in Python do? Can you name some file-related modules in Python?

Python comes with some file-related modules that have functions to manipulate text files and binary files on a file system. These modules can be used to create text or binary files, update their content, copy, delete, and more.

Some file-related modules are os, os.path, and shutil.os. The os.path module has functions to access the file system, while the shutil.os module can be used to copy or delete files.

## 23. Explain the use of with statement and its syntax.



In Python, using the 'with' statement, we can open a file and close it as soon as the block of code, where 'with' is used, exits, without having to use the close() method.

```
with open("filename", "mode") as file_var:
```

## 24. Explain all file processing modes supported in Python.

Python has various file processing modes.

For opening files, there are three modes:

- read-only mode (r)
- write-only mode (w)
- read-write mode (rw)

To open a text file using these modes, we will have to append 't' with them as follows:

- read-only mode (rt)
- write-only mode (wt)
- read-write mode (rwt)

Similarly, a binary file can be opened by appending 'b' with them as follows:

- read-only mode (rb)
- write-only mode (wb)
- read-write mode (rwb)

To append content in files, we can use the append mode (a). Again, for text files, the mode would be 'at', and for binary files it would be 'ab'.

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## 25. Is indentation optional in Python?

Indentation in Python is compulsory and is part of its syntax. All programming languages have some way of defining the scope and extent of the block of codes; in Python, it is indentation. Indentation provides better readability to the code, which is probably why Python has made it compulsory.

## 26. How are Python arrays and Python lists different from each other?

In the case of Python, when people say arrays, they are usually talking about lists. It is because lists are fundamental to Python just as arrays are fundamental to most of the low-level languages. But, there is indeed a module named array in Python which is used or mentioned very rarely. Following are some of the differences between arrays and lists.

Arrays	Lists
Arrays can only store homogeneous data (data of the same type).	Lists can store heterogenous and arbitrary data.
Since only one type of data can be stored, arrays use memory for only one type of objects. Thus, mostly, arrays use lesser memory than lists.	Lists can store data of multiple data types and thus require more memory than arrays.
Length of an array is pre-fixed while creating it, so more elements cannot be added.	Since the length of a list is not fixed, appending items in it is possible.

## 27. Write a code to display the contents of a file in reverse.

```
for line in reversed(list(open(filename.txt))):
    print(line.rstrip())
```

## 28. Differentiate between NumPy and SciPy.

NumPy	SciPy
NumPy stands for Numerical Python.	SciPy stands for Scientific Python.
It is used for efficient and general numeric computations on numerical data saved in arrays. For example, sorting, indexing, reshaping, and more.	This module is a collection of tools in Python to perform operations such as integration, differentiation, and more.
Except for the general computing, there are some linear algebraic functions available in this module, but they are not fully fledged.	Fully fledged algebraic functions are available in SciPy for algebraic computations.

## 29. Which of the following is an invalid statement?

- a) `xyz = 1,000,000`

- 2. b) x y z = 1000 2000 3000
- 3. c) x,y,z = 1000, 2000, 3000
- 4. d) x\_y\_z = 1,000,000

Answer: b

### 30. Can we make multi-line comments in Python?

Python does not have a specific syntax for including multi-line comments (<https://intellipaat.com/community/2791/way-to-create-multiline-comments-in-python?show=2791#q2791>) like other programming languages, but programmers can use triple-quoted strings (docstrings) for making multi-line comments, as when docstring is not being used as the first statement inside a method, it gets ignored by Python parser.



([https://intellipaat.com/all-courses/big-data/?utm\\_source=salesforce-tutorial-page&utm\\_medium=Tutorial-Page&utm\\_campaign=May-all-courses%2Fbig-data%2F](https://intellipaat.com/all-courses/big-data/?utm_source=salesforce-tutorial-page&utm_medium=Tutorial-Page&utm_campaign=May-all-courses%2Fbig-data%2F))

### 31. What would be the output if I run the following code block?

```
list1 = [2, 33, 222, 14, 25]
print(list1[-2])
```

- (A) 14
- (B) 33
- (C) 25
- (D) Error



Ans: 14

### 32. Write a command to open the file c:\hello.txt for writing.

```
f= open("hello.txt", "wt")
```

### 33. What is `__init__` in Python?

`__init__` is a reserved method in Python classes which is equivalent to constructors in OOP terminology. The `__init__` method is called automatically whenever a new object is initiated. The `__init__` method allocates memory to the new object as soon as it is created. This method can also be used to initialize variables.

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### 34. What do you understand by Tkinter?

Tkinter is an inbuilt Python module that is used to create GUI applications. It's Python's standard toolkit for GUI development. Tkinter comes with Python, so there is no installation needed. We can start using it by importing it in our script.

### 35. Is Python fully object oriented?

Python does follow an object-oriented programming paradigm and has all the basic OOP concepts (<https://intellipaat.com/tutorial/java-tutorial/oops-concepts-in-java/>) such as inheritance, polymorphism, and more, with the exception of access specifiers. Python doesn't support strong encapsulation (adding private keyword before data members) although it does have a convention that can be used for data hiding, i.e., prefixing data member with two underscores.

### 36. What is lambda function in Python?

Lambda function is an anonymous function (functions that don't have names) in Python. To define anonymous functions, we use the lambda keyword instead of the def keyword, hence the name 'lambda function'. Lambda functions can have any number of arguments but can have only one statement.

### 37. What is self-keyword in Python?

Self-keyword is used as the first parameter of a function inside a class that represents the instance of the class. The object or the instance of the class is automatically passed to the method that it belongs to and is received in the 'self-keyword'. Users can use another name for the first parameter of the function that catches the object of the class, but it is recommended to use the self-keyword only as it is more of a Python convention.

### 38. What are control flow statements in Python?

Control flow statements (<https://intellipaat.com/tutorial/python-tutorial/python-control-flow-statements/>) are used to manipulate or change the execution flow of a program. Generally, the flow of execution of a program runs from top to bottom, but certain statements in Python can break this top to bottom order of execution. Control flow statements include decision-making, looping, and more.

### 39. What is the difference between append() and extend() methods?

Both append() and extend() methods are methods used for lists. These methods are used to add elements at the end of a list.

append(element): Adds the given element at the end of the list which called this method

extend(another-list): Adds the elements of another-list at the end of the list which called the extend method



### 40. What are loop interruption statements in Python?

There are two types of loop interruption statements in Python that let users terminate a loop iteration prematurely, i.e., without letting the loop run its full iterations.

Following are the two loop interruption statements:

- Python break statement: This statement immediately terminates the loop entirely, and the control flow of the program is shifted directly to the outside of the loop.
- Python continue statement: Continue statement terminates the current loop iteration and moves the control flow of the program to the next iteration of the loop, letting the user skip only the current iteration.

#### 41. What is docstring in Python?

Python lets the user include a description or quick notes for their methods using documentation strings or docstrings. Docstrings are different from regular comments in Python as rather than being completely ignored by Python Interpreter like in the case of comments Python strings can actually be accessed at the run time using the dot operator when docstring is the first statement in a method or function.

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#### 42. What is the output of the following?

```
x = ['ab', 'cd']
print(len(list(map(list, x))))
```

Output: [['a', 'b'], ['c', 'd']].

Explanation: Each element of x is converted into list

#### 43. Which one of the following is not the correct syntax for creating a set?

1. (a) set([[1,2],[3,4],[4,5]])(b) set([1,2,2,3,4,5])(c) {1,2,3,4}(d) set((1,2,3,4))Answer:

(a)Explanation: The argument given for the set must be an iterable.

#### 44. What is functional programming? Does Python follow a functional programming style? If yes, list a few methods to implement functionally oriented programming in Python.



Functional programming is a coding style where the main source of logic in a program comes from functions.

Incorporating functional programming in our codes means writing pure functions.

Pure functions are functions that cause little or no changes outside the scope of the function. These changes are referred to as side effects. To reduce side effects, pure functions are used, which makes the code easy to follow, test, or debug.

Python does follow a functional programming style. Following are some of the examples of functional programming in Python.

1. filter(): Filter lets us filter some values based on a conditional logic.

```
>>> list(filter(lambda x:x>6,range(9))) [7, 8]
```

2. map(): Map applies a function to every element in an iterable.

```
>>> list(map(lambda x:x**2,range(5))) [0, 1, 4, 9, 16, 25]
```

3. reduce(): Reduce repeatedly reduces a sequence pair-wise until it reaches a single value.

```
>>> from functools import reduce >>> reduce(lambda x,y:x-y,[1,2,3,4,5]) -13
```

## 45. How does Python Flask handle database requests?

Flask supports a database-powered application (RDBS). Such a system requires creating a schema, which needs piping the schema.sql file into a sqlite3 command. So, you need to install the sqlite3 command in order to create or initiate the database in Flask.

Flask allows to request for database in three ways:

- before\_request(): They are called before a request and pass no arguments.
- after\_request(): They are called after a request and pass the response that will be sent to the client.
- teardown\_request(): They are called in a situation when an exception is raised, and responses are not guaranteed. They are called after the response has been constructed. They are not allowed to modify the request, and their values are ignored.



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46. Write a Python program to check whether a given string is a palindrome or not, without using an iterative method. Note: A palindrome is a word, phrase,

or sequence that reads the same backward as forward, e.g., madam, nurses run, etc.

```
def fun(string):  
    s1 = string  
    s = string[::-1]  
    if(s1 == s):  
        return true  
    else:  
        return false  
print(fun("madam"))
```

47. Write a Python program to calculate the sum of a list of numbers.

```
def sum(num):  
    if len(num) == 1:  
        return num[0] #with only one element in the list, sum result will be equal to t  
    else:  
        return num[0] + sum(num[1:])  
print(sum([2, 4, 5, 6, 7]))
```

Sample Output:  
24

48. Do we need to declare variables with data types in Python?

No. Python is a dynamically typed language, which means that Python Interpreter automatically identifies the data type of a variable based on the type of value assigned to the variable.

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49. How will you read a random line in a file?



We can read a random line in a file using a module named 'random'.

For example:



```
import random
def read_random(fname):
    lines = open(fname).read().splitlines()
    return random.choice(lines)
print(read_random ('hello.txt'))
```

50. Write a Python program to count the total number of lines in a text file.

```
def file_count(fname):
    with open(fname) as f:
        for i, 1 in enumerate(f):
            pass
    return i+1
print("Total number of lines in the text file: ", file_count("file.txt"))
```



The infographic features a blue header with the word "PROGRAMMING" in large white letters. To the left is an illustration of a laptop with a magnifying glass, surrounded by papers and a coffee cup. Below the header, a white section lists "Top Companies Extensively Looking Python Programmers" with logos for Google, Amazon, Microsoft, Cisco, and IBM. The next blue section states "The average salary of a Python Developer :- \$125,000." with a small "source: payscale.com" note. The final white section at the bottom says "19,506 open job positions available for Python Pro across the globe."

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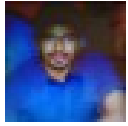
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August 30, 2016 at 1:16 am (<https://intellipaat.com/blog/interview-question/python-interview-questions/#comment-11862>)

**Bhandranti** Thanks to these questions, I got a job offer in a multi million dollar company! Thanks a lot guys, Keep up the good work.

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November 2, 2016 at 12:34 pm (https://intellipaat.com/blog/interview-question/python-interview-questions/#comment-11863)  
Great work...!! Really helpfull...!!

**shashidhar devraj** says: [Reply](https://intellipaat.com/blog/interview-question/python-interview-questions/?replytocom=11863#respond) (https://intellipaat.com/blog/interview-question/python-interview-questions/?replytocom=11863#respond)



February 28, 2018 at 1:12 pm (https://intellipaat.com/blog/interview-question/python-interview-questions/#comment-11864)  
Valuable informative source.  
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**Suresha**

**Ejari**

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April 30, 2018 at 3:19 pm (https://intellipaat.com/blog/interview-question/python-interview-questions/#comment-11866)

I want to increase execution time of python script because my script takes 1 hours to complete the process.

Any one can help me.

**sushil**

**vishwakarma**

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August 23, 2019 at 9:52 pm (https://intellipaat.com/blog/interview-question/python-interview-questions/#comment-12377)

42. What is the output of the following?

```
x = ['ab', 'cd']
```

```
print(len(list(map(list, x))))
```

Output: [['a', 'b'], ['c', 'd']].

**akash**

**ranjan** says:

Explanation: Each element of x is converted into list

ouput will be 2 as we r calculating length atleast

if it was :- `print(list(map(list, x)))`

then givenn ooutput was correct

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