

PYTHON PROGRAMMING INTERVIEW QUESTIONS AND ANSWERS

keyword: python.

Python is one of the highest used programming language in the world; the most frequently asked question related to this programming language is, regarding the top questions asked in interviews. In this blog you'll be learning about the top questions asked related to python and the answer to those, with the help of which one can crack any python programming related interview.



1. What is Python Set?

Python set can be defined as an collection of unordered unique elements, one can use it when they need only unique items from the input, addition and deleting of items can be done from it, one can initialize a set using curly braces by placing elements in it.

2. What is monkey patching and is it a good idea?

It can be referred to changing the behavior of an object or function after it has already been defined. It is often a pretty bad idea as it is better if things work in a predefined way.

3. What is an interpreted language?

An interpreted language is one that runs directly from the source code; the source code is converted into an intermediate language which is later converted into machine language that has to be executed. Python is one of the examples of an interpreted language.

4. What is inheritance?

Inheritance allows one to define a class which gains (inherits) all the members of another class. The class which is inherited is called the child/derived class, the class from which one is inheriting is called super class. Inheritance provides reusability of the code which helps in building the application easily and also makes it maintainable.

5. How is memory managed in python?

The python memory manager handles the memory management part of the programming language, there is a memory allocated by the manager called the private heap space which is dedicated for python. All data structure and object are located in this private heap, it also contains an inbuilt garbage collector that recycles the unused memory and makes it usable as heap space.

6. Explain the principal differences between the def and lambda?

- *Lambda builds a function object and returns it while Def generates a function and names it to call it later
- *Lambda cannot have return statements. Def can.
- *Lambda is a uni-expression function where as Def can hold multiple expressions.

7. Explain Tuple in python?

A Tuple can be referred as a collection which is unchangeable and which is ordered, it is written with round brackets.

8. How can one assign values to the class attributes at run time?

To do this one needs to add a pass input and an init method to object constructor, look at the following example.

```
>>> class food:
```

```
    def __init__(myself, favorite):
```

```
        myself.favorite = favorite
```

```
def myself_favorite(myself, new_favourite):
```

```
    myself.favorite = new_favorite
```

```
>>> love = food("Pizza")
```

```
>>> print(love.favorite)
```

Pizza

9. Explain what are python generators?

It is a type of a function which lets you specify a function which is acting like a iterator and can later get used in a for loop.

In generator function the return statement is substituted by the yield keyword.

normal Python function

```
def fn():
```

```
    return "Normal Python function."
```

Python Generator function

```
def generate():
```

```
    yield "Generator function."
```

```
print(next(generate()))
```

Output: Generator function.

10. How does a ternary operator work in python?

Ternary operator acts as an alternative for the conditional statements. The syntax would be

```
[true]if[condition]else[false]
```

Example:

```
a, b = 25, 55
```

```
small = a if a < b else b
```

```
print(small)
```

SUMMARY

The above mentioned are some useful questions that might help you prepare for the interviews. The competition in this field is huge so apart from these questions, the confidence and skill set of one will play a major role to crack interviews and get a good job.

