LIVE

DOUBT CLEARING
SESSION

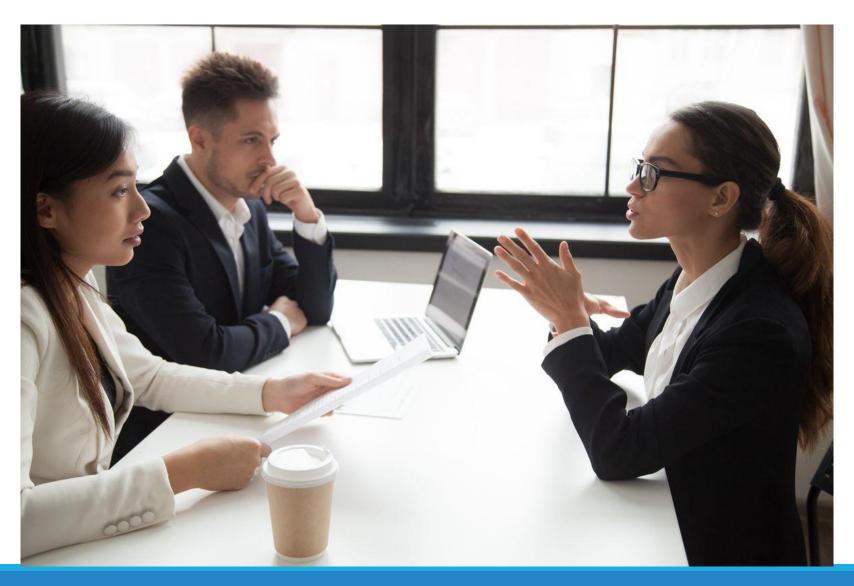# Resume

Common Interview Questions

1. What is Python?

Python is a general-purpose programming language and was created by Guido van Rossum in 1991. It is interactive and interpreted language. It supports both structured and object oriented style of programming. Python is an open source language under general public license(GPL).

2. What is type conversion in python?

When we perform any operation on variables of different datatypes, the data of one variable will be converted to a higher datatype among the two variables and the operation is completed. When this conversion is done by interpreter automatically then it is known as implicit type conversion while convertions is done by user then it is called explicit type conversion.

3. What is random module?

Python has many inbuilt packages and modules. One of the most useful modules is random. This module helps in generating random numbers.

4. What is lambda in Python?

A lambda function is a small anonymous function (single-line function). A lambda function can take any number of arguments, but can only have one expression

5. What is __init__ in Python?

"__init__" is a reseved method in python classes. It is called as a constructor in object oriented terminology. This method is called when an object is created from a class and it allows the class to initialize the attributes of the class.

6. What are the differences between list and tuple?

list	tuple
The item surrounded by []	The item surrounded by ()
List are mutable in nature	tuple are immutable in nature
There are 46 method available for list	There are 33 method available for list
In dictionary, we can not use list as keys	In dictionary, we can use tuple as keys

7. What are python modules? Name some commonly used built-in modules in Python?
Ans: Python modules are files containing Python code. This code can either be functions classes or variables. A Python module is a .py file containing executable code.
Some of the commonly used built-in modules are:
•os
•sys
•math
•random
•data time
•JSON

8. Is indentation required in python?
    Ans: Indentation is necessary for Python. It specifies a block of code. All code within loops, classes, functions, etc is specified within an indented block. It is usually done using four space characters. If your code is not indented necessarily, it will not execute accurately and will throw errors as well.

9. How to comment multiple lines in python?

10. What does len() do?

11. What are negative indexes

12. How do you get a list of all the keys in a dictionary?

12. What is a dynamically typed language?

- **Static -** Data Types are checked before execution.
- **Dynamic -** Data Types are checked during execution.

13. What are modules and packages in Python?

14. What is the difference between Python Arrays and lists?

Arrays in python can only contain elements of same data types

Lists in python can contain elements of different data types

15. What are iterators in Python?
In Python, iterators are used to iterate a group of elements, containers like a list. Iterators are the collection of items, and it can be a list, tuple, or a dictionary. Python iterator implements __itr__ and next() method to iterate the stored elements. In Python, we generally use loops to iterate over the collections (list, tuple).