* Python was developed by Guido van Rossum & released on Feb 20, 1991.

1. What is python ? What are the benefits of using python?

Ans. Python is a high-level, Interpreted, general-purpose programming language. Being a general purpose language, It can be used to build almost any type of application with the right tools and libraries. Python supports objects, modules, threads, exception-handling & automatic memory management.

Benefits : Completely open-source, supports third-party packages and encourages code reuse.

1. What is a dynamically typed language ?

Ans. In a strongly typed language, such as python, “1” + 2 will result in a type error but in a weakly typed language, such as javascript, will simply output 12 as a result.

* Static - data types are checked before execution
* Dynamic - data types are checked during execution

SInce python is an interpreted language, it executes each statement line by line and thus type-checking is done during execution. Hence python is a dynamically typed language.

1. What is an Interpreted Language ?

Ans. An interpreted language executes its statements line by line.

Examples : Python, Javascript, Ruby PHP and R are the prime examples for an interpreted language.

1. What is PEP 8 ?

Ans. PEP stands for Python Enhancement Proposal. A PEP is an official design document providing information to the python community. Apparently contributing to the Python open-source community requires you to follow the guidelines sincerely and strictly.

1. What are lists and tuples ?

Ans. Lists and Tuples are sequence data types that can store collection of objects in python

1. What are the common built-in data types in python ?

Ans. There are several built-in data types in python. They are :

1. None type - None
2. Numeric type - int, float, complex and bool
3. Sequence type - lists, tuples and range
4. Text type - str
5. Binary type - byte
6. Mapping type - dict
7. Set type - supports add() and remove()

7. What is pass in Python ?

Ans. The pass is a keyword. Generally used for filling up the empty block of code which may execute during the runtime but yet to be written.