1. who developed python programming language

Ans. [Guido van Rossum](https://www.google.com/search?sxsrf=AJOqlzUsoBF7K5meHNzzJmROnC9DhsiVpA:1675346887039&q=Guido+van+Rossum&stick=H4sIAAAAAAAAAONgVuLUz9U3MMwwME1-xGjCLfDyxz1hKe1Ja05eY1Tl4grOyC93zSvJLKkUEudig7J4pbi5ELp4FrEKuJdmpuQrlCXmKQTlFxeX5gIACMWaE1cAAAA&sa=X&ved=2ahUKEwi90M7Agff8AhUjTGwGHYJ_CS8QzIcDKAB6BAgKEAE)

1. which type of programming does python support

Ans. Python is a multi-paradigm programming language. Object-oriented programming and structured programming are fully supported.

1. is python case sensitive when dealing with identifier

Ans. Yes, Python is a case-sensitive language, i.e., it treats uppercase and lowercase characters differently.

1. what is the correct extension of the python file

Ans. .py Extention

1. is python code compiled or interpreted

Ans. Python is an interpreted language, which means the source code of a Python program is converted into bytecode that is then executed by the Python virtual machine.

1. name a few block of code used to define in python language.

Ans. A Python program is constructed from code blocks. A block is a piece of Python program text that is executed as a unit. The following are blocks: a module, a function body, and a class definition.

1. state a character used to give a single line comments in python.

Ans. In Python, we use the hash symbol # to write a single-line comment.

1. Metion which helps to find the version of python.

Ans. Using sys. version method.

1. python supports the creation of anonymous functions at runtime

Ans. It uses a construct called "lambda"

1. what does pip stand for python

Ans. pip stands for "preferred installer program.

1. mention a few built in function in python

Ans.

|  |  |
| --- | --- |
| Function | Description |
| bool() | Returns the boolean value of the specified object |
| bytearray() | Returns an array of bytes |
| bytes() | Returns a bytes object |
| callable() | Returns True if the specified object is callable, otherwise False |

1. what is maximum possible length of an identifier

Ans. An identifier can have a maximum length of 79 characters in Python

1. what are the benefits of using python

Ans.

* System automation and administration.
* Computer graphics.
* Basic game development.
* Security and penetration testing.
* Data science.
* Scientific and mathematical computing.
* Web development.

1. How is memory managed in python

Ans. Memory management in Python involves a private heap containing all Python objects and data structures.

1. how to install python on windows

Ans. Open a browser to the Python website and download the Windows installer. 2. Double click on the downloaded file and install Python for all users, and ensure that Python is added to your path. Click on Install now to begin.

1. Is indentation required in python

Ans.  the indentation in Python is very important.