

## **What is python?**

As per the Python software Foundation, Python is a high level interactive, interpreted and object oriented scripting language.

## **What is the difference between scripting languages and programming languages?**

### ***Programming languages***

1. Programming languages are meant for developing both system software as well as application software.
2. The programs which are supported to run the system is known as system software various application software is nothing but the programs which are used to achieve the specific requirements of the customer or the client.
3. in order to work with any programming language it is mandatory to require to install special software's called compiler for an example if you want to write and execute the C program then we have to install C compiler call the turbo c 2 similarly if you want to work with Java language then it is recommended to install a special software called JDK
4. After writing any program using programming languages it is mandatory to compile before execution.
5. Programming languages are heavyweight that is that taking more resources and more processing time
6. In programming languages there is a separation between source code and application program

### ***Scripting languages:***

1. Mostly scripting languages are meant for developing application software

2. the most of the scripting languages does not have the capability to execute independently that means the scripting languages required the support of system software.

Example for the scripting languages are JavaScript, Shell Script, python etc

3. In order to work with the scripting languages does not required to install special software's, but few scripting languages required to install software's if you want to work with JavaScript that is not required to install Special software whether your system should be loaded with the Notepad and the basic browser is enough similarly if you want execute Shell Script then your system should be loaded with any Unix based operating system

4. If we develop any program using scripting languages does not required to compile before execution rather that executed directly without any preliminary compilation

5. Scripting languages are lightweight visa taking less resources endless process

6. In the scripting languages there is no separate exe file rather the source file itself it is acting as an executable file

## **Note:**

**Python be inherited by taking the best powerful features of programming languages and scripting languages**

**a. object oriented programming capability from C + + and Java**

**b. procedure oriented capability from C language**

**c. scripting capability from JavaScript and Shell Script.**

**d. modularity from modular 3 and some other language support**

## **Applications of Python:**

1. Web application development

2. Automation applications

3. Testing tools

# SSSIT Computer Education

Kphb-hyderabad : 9866144861.

Online Python Training

Python

---

- 4. Gaming applications
- 5. Internet of things - IOT
- 6. Data Analytics and data science
- 7. Artificial intelligence ...etc

Shashi Kumar - SSSIT