**PYTHON**

1. **Introduction :**

* Python is a general purpose high level programming language having support of Object Oriented Programming. It is user friendly and also a interpreted language which convert user code to computer readable format.
* It is firstly introduced by Guido van Rossum on 1989, which got its patient on 1990 and officially released on 1991.

1. **Features :**
2. **OOP (Object Oriented Programming):** It supports OOPs concept that’s why it is considered as a high level language.
3. **Portable:** Its Code can run on any machine having Windows, Mac and Linux Operating System.
4. **Extensible:** Any code like HTML, CSS, JavaScript and many different code can run inside the Python.
5. **Dynamicity:** Python has lacks of libraries which makes to code easy and achieve complex task efficiently.
6. **Low Level Language:**  We can write Machine instructions (Machine language), Assembly Language and program for computer hardware components.
7. **Application :**
8. We can created Control based application.
9. Graphical User Interface (GUI) application can be created by python.
10. To create Web based application Python has libraries such as Flask, Django Flutter etc.
11. By Python we can do Data Science, Artificial Intelligence, NLP, Internet of Things and Robotics and many more things very efficiently without complex programming.
12. Programing for Operating System (OS) can also be done by using Python.
13. Server Side Scripting for web application and android based application can also be done.
14. It is also widely used in Network Programing