**WHY TO CHOOSE PYTHON?**

***Why do people use Python…?***

The following primary factors cited by Python users seem to be these:

* Python is object-oriented Structure supports such concepts as polymorphism, operation overloading, and multiple inheritance.
* It's free (open source) Downloading and installing Python is free and easy Source code is easily accessible.
* It's powerful - Dynamic typing ( It doesn't know about the type of the variable until the code is run.) - Built-in types and tools - Library utilities - Third party utilities (e.g. Numeric, NumPy, SciPy) - Automatic memory management.
* It's portable - Python runs virtually every major platform used today - As long as you have a compatible Python interpreter installed, Python programs will run in exactly the same manner, irrespective of platform.

***Scope of Python:***

• Science – Bioinformatics

• System Administration -Unix -Web logic -Web sphere

• Web Application Development -CGI (Common Gateway Interface) -Jython – Servlets

• Testing scripts

***Major Uses of Python:***

* 1. System Utilities
  2. Graphical User Interface Programming (GUIs) (Tkinter, gtk, Qt, Windows)
  3. Internet Scripting
  4. Embedded Scripting / Component Integration
  5. Database Programming
  6. Artificial Intelligence
  7. Image Processing
  8. Gaming, Images, XML , Robot and more

***Who uses python today…***

Python is being applied in real revenue-generating products by real companies. For instance:

A)Google makes extensive use of Pythonin its web search system, and employs Python’s creator.

B)Intel, Cisco, Hewlett-Packard, Seagate, Qualcomm, and IBM use Python for hardware testing.

C)ESRI uses Python as an end-user customization tool for its popular GIS mapping products.

D)The YouTube video sharing service is largely written in Python.