Python Assignment

1. Why is python called popular language?

Python is a general purpose, high level, interpreted and object-oriented scripting language.

It uses a simplified syntax with an emphasis on natural language, for a much easier learning curve for beginners and python is free to use and is supported by an extremely large ecosystem of libraries and packages, it's often the first-choice language for new developers.

Features of Python

- **Simple - Python** is a simple programming language. It uses English like sentences in the programs which helps programmers understand easily
- **Easy to learn - Python** uses very few keywords. Its programs are very simple in structure
- **Open source -** Python can be freely downloaded fron its official website www.python.org its source code can read, modified and can be used in programs as desired by the programmers
- **Dynamically typed - In** python, we need not declare variables depending on the values stored in the variable, python interpreter internally assumes the datatype
- **Platform independent - Python** programs are not dependent on any computer and any operating system. A python program written in windows operating system will execute in Linux and mac operating systems also. We can install python on Unix, Linux, windows, Macintosh, Solaris etc**.**
- **Portable - When** a program gives same results in any operating system in this world. Then it is called portable program. Python programs are portable programs as they give same result across as platforms
- **Procedure and object oriented - Python** is both procedure oriented and object-oriented language. In pols the program is build using functions and oopl's programs are build using class and objects.
- **Scalable - A** program is scalable if it can move to another OS or Hardware and take full advantage of the new environment in terms of performance**.**

2. What are other frameworks that can be used with python ?

        The frameworks provide easiness while developing an application (or software) to developers. They offer automatic implementation of redundant tasks, reduce development time, and focus significantly on application logic rather than a common element.

        There are primarily three types of frameworks as follows.

- Full Stack Frameworks
  - Django
  - Web2py
- Micro Frameworks
  - CherryPy
  - Flask
- Asynchronous Framework
  - Growler
  - AIOHTTP

3.Full-form of WSGI:

        WSGI stands for "Web Server Gateway Interface". It is used to forward requests from a web server (such as Apache or NGINX) to a backend Python web application or framework. From there, responses are then passed back to the webserver to reply to the requestor.