

Class-4

Features of Python

Python features are nothing but facilities provided by python programming language to developers or python programmers 1. Simple (OR) Easy 2. Large Standard Libraries 3. Free and Open Source 4. Dynamic 5. Platform Independent 6. Interpreted 7. High Level and Portable 8. Extensible 9. Embeddable 10. Object Oriented

Simple OR Easy

1. Syntax of Python is easy compare with other programming language(C,C++,Java) In python statements are not terminated with ; In python blocks are not defined with curly braces { } Python is multiparadigm programming language, it allows to write program using multiple syntax or programming paradigms 2. Python is high level programming language, all instructions in high level language are simple english 3. Less coding, python provides large number of libraries. libraries are nothing but pre-defined programs with predefined code. libraries make it application development easy. 4. Automatic memory management, in python memory management is taken care by python

Free and Open Source

Python software is free to download python software can be downloaded from www.python.org What is source code or program? A program written in high level language is called source program. source program is understood by programmer. python software source code is given to public or open to public. the advantage of open source technologies is 1. new languages 2. new frameworks 3. integrate with existing technologies

Large Standard Libraries

python provides large number of libraries. libraries are nothing but pre-defined programs with predefined code. libraries make it application development easy. all python libraries are available in a repository www.pypi.org (Python Package Index). package is nothing but folder. folder contains program(module)

Dynamic

Programming languages are two types 1. Statically typed programming languages 2. Dynamically typed programming languages