Monday, 25 July 2022. Python : Ones platform language * Python is a high-level, interpreted, general purpose programming language. * Its design philosophy emphasizes code readability with the use of significant indentation. * It supports multiple programming paradigms, such as. Structured (particularly procedured), Object oriented and functional programming. * Python was conceived in the late 1980's by Gewido Van Rossum at Centrum Wiskunde & Informatica (CWI) in the Netherlands as a successor to ABC programming Language. Features : 1) Easy to Jearn and use * Syntax is very simple and much similar to english language * No use of semicolons or cutly-brackets, the indentation defines the code block * It is readable 2) Expressive language * Complex tasks can be done using very less lines of code-tri managema 24 3 Interpreted language * The python program is executed one line at a time. * It makes debugging easy and makes it portable

4) Cross platform Janquage.

+ Python can run equally on different

platforms Such as Windows Linux, UNIX,

Macintosh etc. So it can be said that

python is portable language

* It enables programmers to develop the software for several competing platform by writing program only once.

5) Free and open source and and the

Python is freely available to everyone

* Anyone can contribute to python acommunity which is working for making new python modules and functions, across the world.

* The source code of python is available to anyone, i.e. anyone can download its source code without paying any penny.

6 Object Oriented Language

* Python supports classes of and objects

* It supports inheritance, polymorphism, and encapsulation, etc.

* It helps programmers to write reusable code and develop applications in Jess code.

7 Extensible

* It converts program into byte code, and any platform can use that byte code.

* The public program is execut

8 Large standard Library

* It provides a vast range of Libraries for the various fields such machine Jearning, web developer, and also for scripting.

* There are various machine Jearning Liabraries, such as Tensor Flow, Pandas, Numpy, Keras, etc

* Django, flask, pyramids are the popular framework for python web development.

9 GUI programming support.

* GUI is used for the developing desktop application.

* PygT5, Tkinter, kiny are the libraries used for developing the web applications.

* Collection of repositon-Lies

* Python runs code line by line like c, C++, Java.

* It can be easily integrated with c, c++, Java.

1) Embeddable

* The code of the other programming language can be used in Python source code.

* Pythodn source code can also be used in other programming language

12 Dynamic Memory adocation

* Data type of variables is not needed to be specified at time of declaration.

* Whenever any value is assigned to the variable, the memery is allocated automatically at run-time.

It is commonly used for developing websites and softwares, task automation, data analysis, and data visualization.

strong standard Library

Open source refers to the code that is designed to be publicatly accessible, anyone can see, modify, and distribute the code as they see fit. 9 (ett programming support.

Git-hub;

* Collection of repository/ies

* There are various machine learning liet

* (Ell is used for the developing develop on

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who as Tensor Flow, Produce Namon

- * Cloud based software.
- * It is a kind of virtual storage. * The can be easily integrated units e

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