201/10/25

Today mul tope -

Dunat are the Pros & cons of Python 2. 2) History of Python?.

IA) Prox & cons in Python?

\* Prox = of Python:

1) Easy to learn & use ;-

\* puthon has a simple, english like. Syntax & that's easy to read & Write a Program.

\* Great for beginners & Quickly learn/development.

2) Extensive libraries & trans work:

\* Huge Standard library & thirdparty modules for almost everything-

\* Web. development; Diago\_ flash, fast APi

3) (ross-Platform & Portable:

\* Python works on Windows' Macos; Minux, & even Rospherry Pi-

\* (ade can usually You anywhole Without modifications.

u) Strong Community Support:

\* One of the largest Programming

Communities in the world.

\* Tons of documentation, tutorials & OPEn - Source took available.

5) Novstile and Multi-Purposet

rused in many fields

& wes develo ment

\* Attificial Intelligence EML

\* Consid Python:

1) Sower Execution Speed:

\* Python is interpreted not

compiled - it executes the codes

\* Slower than language like"(, C++ 60

2) High memory usage:

\* Python uses more memory due to Pts dynamic typing & garbage collegia \* Not ideal for memory - constrained

devices.

3) Not Great for Mobile Development:

\* Very few mainer affs are written

\* Frame works. like "kiny" & Beeware. but ovenit as majure as native

tools.

4) Run-time Erroll' ( Dypamic Typing).

\* Python is dynamically types meaning Variable type are chelked at rintine

xit is flexibility can cause of

unexperce bugs that can't Caught until the program runs.

5) (Mobal Interpreter Jock (GIL)

\*The (GIL) Prevents multiple

threads from running Python

code of once in the same Process.

\* This limits Perfor mance in

multi- threased, clu-bound tous

2) History of Python?

Python is a high-level general-Purpose Programming language Created by "Gruido Van Rossium" in the laste 1980s. Gruido Workes at the Centrum wisk unde & informatica (Cwi) in the Netherlands, where he was using a programming language in called "ABC". ABC was Simple & exay to use but it lacked flexibility for Certain types of Systems Programming, Particularly integration with the Amoeba distributes integration. Operating System that Gruido was developing During Christmas in 1989.

These new language would be open-Source highly exterption. Edynamic typing easily. The name of "python" did not come from the Snake - Unido named it after his fervorite British comedy show monty python is flying circus the wanted of Short Fun & unique same for high snew language.

The first official version in Python 1.0 was released in february 1991. it introduces many of the converse futures that still define Python to day. Duch as functions, modules, exections { Core datatypes like lists of dictionaries. One of the reason python becomes a Popular aniculy way its simple the reason becames a Popular aniculy way its simple the reason short Python history reflects a journy of continus collaboration of simplify of continus collaborations. From a small hobby Project in the

to the back bone of modern computing, python has be a universal language that connects devotorens in Lustrial making it one of the most influential in