INTRODUCTION TO PYTHON

Objective:-

- History of Python

- Version History of Python

- Why you should learn Python?

- Features of Python

- Amazing facts

- Where Python can be used?

- Learning Path

History of Python

- Python was conceived in the late 1980 s by Guido van Rossum at centrum Wiskunde and Informatica in the Netherlands as a successor of the ABC language.

- He has been invariably worked as the lead developer, until 12 July 2018

- In jan 2019, active Python core developers elected a five member council to lead the project.

Version History

- Python 1.0   1994
- Python 2.0   2000
- Latest version
- Python 3.11   2022
- Python 3.12   2023
- Python 3.13   2024
- Name – Python
- Python developers aim for it to be fun to use, the name 'python' is a tribute to the British comedy group Monty Python

Why you should learn Python?

- Huge community Support

- Future is with AI

- Easy to learn and implement

- General purpose programming language

Features of Python

- Higly Extensible
- Simple and straight forward syntax
- Multi Paradigm programming language
- Emphasis on code readability
- Dynamic typing automatic memory management
- Dynamic Binding
- Precise Coding
- For time critical Operations, python can use modules written in C language
- Introduction base block of code
- Large library
- Platform independent

Amazing facts

- Ranked #1(TIOBE)

- Highest rise in rating 2007, 2010, 2018, 2020

- It reduces app development time by 1/6

- Large organizations that uses python are   Google, Netflix, Dropbox, Youtube, Instagram, CERN, Microsoft, NASA, Amazon, facebook, Mozilla, etc.

Where Python can be used?

- Developing websites

- Task automation

- Data Analysis

- Data visualization

- AI, ML,IOT

- Developing desktop applications

- Python can also be used in developing mobile applications, client side AJAX based applications.

Learning Path

Learn by doing Projects

■ Absolute Beginner →core python →oops

→Develop console app using some DB.

→Develop GUI app

→Develop Web application

→Develop ML based app

→Learn Devops

Thank you!