

Advanced Programming-Python

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Contents of Todays (Day-1) Discussion

- **Introduction-Python programming**
- **Features of Python Programming Language**
- **Applications of Python programming Language**
- **Integrated development environment for Python**

INTRODUCTION

- Python is a **High level** programming language, use to instruct the computer to perform different task.
- Python is a straightforward and uncomplicated language that reads like simple English. Python's Pseudo-code structure makes it simple to learn and understand for newcomers.
- **History of Python:** Python was created by **Guido van Rossum**, and first released on February 20, 1991.

Inventor of Python



INTRODUCTION (CONTD..)

➤ What made **Python so popular today**?

Python has become a staple in data science, allowing data analysts and other professionals to use the language to conduct complex statistical calculations, create data visualizations, build machine learning algorithms, manipulate and analyze data, and complete other data-related tasks.

Python can build a wide range of different data visualizations, like line and bar graphs, pie charts, histograms, and 3D plots. Python also has a number of libraries that enable coders to write programs for data analysis and machine learning more quickly and efficiently, like TensorFlow and Keras.

FEATURES OF PYTHON PROGRAMMING LANGUAGE

- Interpreted
- Interactive
- Object-Oriented
- High level
- Easy-to-learn
- Portable
- Extendable
- Databases
- GUI Programming
- Scalable
- No type declaration

APPLICATIONS OF PYTHON PROGRAMMING LANGUAGE

Python can be used

- on a server to create web applications.
- alongside software to create workflows
- connect to database systems
- to handle big data and perform complex mathematics
- In software development

INTEGRATED DEVELOPMENT ENVIRONMENT FOR IDE

There are two popular variations

- **Python IDLE- Can be downloaded and install from python.org**
- **Python Anaconda-Can be downloaded and install from anaconda.org**

INSTALLATION PROCEDURE OF PYTHON IDLE

INSTALLATION PROCEDURE OF PYTHON ANACONDA

Thank You