

PYTHON PROGRAMMING

- A Beginner's Guide

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Ms.D.PRINCY

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INTRODUCTION TO PYTHON

1.1 INTRODUCTION

Python is a popular high-level, general-purpose, interactive, object-oriented, interpreted and integrated scripting programming language. It was created by Guido van Rossum, and released in 1991. Python is open-source software.

1.1.1 USES

- Python used for create web applications on a server-side.
- Python used with software to create workflows.
- Python used to connect database systems. It can also be used to read and modify files.
- Python used to handle big data and perform complex mathematics.
- Python used for rapid prototyping and for development of production-ready software.

1.1.2 FEATURES

- Python works on different platforms like Windows, Mac, Linux, Raspberry Pi, etc.
- Python has a simple syntax which is very similar to the English language.
- Python syntax includes fewer lines than some other programming languages.
- Python runs on an interpreter system (No compilation needed) such that code can be executed as soon as it is written.
- Python can be used in multiple programming styles like a procedural way, an object-oriented way, interactive styles or a functional way.
- Python was designed for readability and reusability.
- Python uses new lines to complete a command (Other programming languages which often use semicolons or parentheses).
- Python relies on indentation, using whitespace, to define scope (Other programming languages often use curly-brackets).

	are combined
UnboundLocalError	Raised when a local variable is referenced before assignment
UnicodeError	Raised when a unicode problem occurs
UnicodeEncodeError	Raised when a unicode encoding problem occurs
UnicodeDecodeError	Raised when a unicode decoding problem occurs
UnicodeTranslateError	Raised when a unicode translation problem occurs
ValueError	Raised when there is a wrong value in a specified data type
ZeroDivisionError	Raised when the second operator in a division is zero