# 1. PYTHON – INTRODUCTION

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## 1. What is Python?

- ✓ Python is a general purpose and high-level programming language.
- ✓ General purpose means, currently all companies are using python programming language to develop, test and deploy the software applications.
- ✓ High level programming means, it's a human readable language and easy to understand.

## 2. Python programming applications

- ✓ By using python programming we can develop,

| Type of application | Purpose of the application |
|---|---|
| 1. Standalone application | ✓ An application which needs to install on every machine to work with that application. |
| 2. Web applications | ✓ An application which follows client-server architecture. |
| 3. Database applications | ✓ An application which perform curd (create, update, retrieve and delete) operations in database. |
| 4. Bigdata applications | ✓ An application which can process the BigData. (like pyspark) |
| 5. Machine learning | ✓ An application which enables computers to learn automatically from past data. |

**Make a note**

- ✓ By using python we can even implement many of other applications too.

## 3. History of Python?

- ✓ Python was created by Guido Van Rossum in the year of 1991.
- ✓ Python is open source software means we can download freely from www.python.org website and customise the code as well.

**Guido Van Rossum**

## 4. Why the name was python?

- ✓ A TV show Monty Python's Flying Circus was very much popular fun show in 1970's.
- ✓ So, Guido likes this show and given this name to his programming language.

## 5. Python logo


## 6. Current python version

- ✓ While preparing this document the current python version is,
  - Python 3.11.1

## 7. Python supports

- ✓ Python supports Functional and Object oriented programming approach

  - Python = Functional Programming **+** Object Oriented Programming