

## 1. PYTHON – INTRODUCTION

### Table of Contents

|  |   |
|--|---|
| 1. What is Python? .....                 | 2 |
| 2. Python programming applications ..... | 2 |
| 3. History of Python? .....              | 3 |
| 4. Why the name was python?.....         | 3 |
| 5. Python logo.....                      | 4 |
| 6. Current python version .....          | 4 |
| 7. Python supports.....                  | 4 |

## 1. PYTHON INTRODUCTION

### 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](http://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