PYTHON

KANNAN J

INTRODUCTION

Python is a general/multi purpose high level programming language. It was developed by Guido Van Rossam in 1989, and made available to the public in 1991. The official Date of Birth of Python is Feb 20th 1991. .py is the python file extension. Python programs are interpreted line by line, without directly compiling into machine code. Hence it is slower than C or C++. It's concise and easy to read. Whatever you want to do, Python can do it; From web development to machine learning to data science. Here I am trying to create notes for Python from scratch to advanced level as I proceed.

"

Whether you want to uncover the secrets of the universe, or you want to pursue a career in the 21 st century basic computer programming is an essential skill to learn...

–Stephen Hawking

"

Features of Python

➔ Supports Functional Programming.
➔ Supports Object Oriented Programming.
➔ Supports Scripting Language Features.
➔ Supports Modular Programming.
➔ Open Source and Free.
➔ Platform Independent and Portable.
➔ Extensible and Embedded.
➔ Dynamically Typed and Interpreted.
➔ Powerful Libraries.
➔ Easy to learn.
➔ Easy-to-maintain

Current version of Python is Python 3.

The Python language was developed by taking programming features from different languages like; C, C++, Perl, Shell Script, Modula-3, ABC languages etc.

Python is used for

1. For *AI and ML purposes.*

2. For *Data Analysis Applications.*

3. For developing *Desktop and Web Applications.*

4. For *IOT.*

5. For developing *Database Applications.*

6. For *Network Programming.*

7. For *Developing games.*

8. For *Task Automation.*

9. For *GUI Programming.*