

# Introduction to Python

## What is PYTHON?

**Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.**



## Why PYTHON?

It is really a beginner friendly language, and even a 5th standard student can master it's basic in no time. The language is kind of like English which makes it piece of cake to understand. A simple command to print something is just written in a single line: `print('Hello')`; // This outputs Hello world, The same program in C or java can take up to 3-4 lines.

## Features of Python?

Ever wondered how machine do tasks automatically? Well, Python comes to rescue. Python can be the language to make them do what you want them to do.

Ever wondered how websites are made? Well, Python comes to rescue. Many of the popular websites like Quora, Youtube, Netflix are written in Python.

Ever wondered to download a top released movie every Friday automatically with just a simple script? Well, Python comes to rescue. You can write a script which can download movies or just anything of your choice automatically.

## What will be taught in this one day workshop?

This hands-on is will introduce the building blocks of Python scripting environment. Participants will learn about basic programming concepts including simple and complex data types, conditionals and looping that applicable to Python and other languages. Participants will also learn how to set up a “development environment” for Python on their personal computer.

## Prerequisites for this workshop:

1. Little to no knowledge of python or programming is required.

## Things to be carried to the workshop:

1. Notebook, pen for your convenience.
2. Bring your own laptop.

**Date of workshop:** 16/01/2018

**Time span:** 11:00am onwards

**Venue:** Seminar Hall, Bengal Institute of Technology

**Workshop fee:** 150 INR per person