# What is Python

**Python** is an object-oriented, high level language, interpreted, dynamic and multipurpose programming language.

Python is *easy to learn* yet powerful and versatile scripting language which makes it attractive for Application Development.

Python's syntax and *dynamic typing* with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas.

Python supports *multiple programming pattern*, including object oriented programming, imperative and functional programming or procedural styles.

Python is not intended to work on special area such as web programming. That is why it is known as *multipurpose* because it can be used with web, enterprise, 3D CAD etc.

We don't need to use data types to declare variable because it is *dynamically typed* so we can write a=10 to declare an integer value in a variable.

Python makes the development and debugging *fast* because there is no compilation step included in python development and edit-test-debug cycle is very fast.