# What is Python ??

Python is general purpose, high-level, Interpreted, Object oriented & dynamically typed programming language.

## High- level ::-

Since Humans can understand it’s source code easily it is called as High level language.

## Interpreted::-

It is interpreted line by line. Because of this we can debug easily. It doesn’t generate any intermediate machine code as compiler does.

## Object-oriented::-

Python uses OOPs concepts. It uses classes & objects.

## Dynamically typed::-

Unlike C,Java we need not to mention the data types while mentioning. By default it takes. Hence it is easy to write, Code & maintain.

## What is the difference between Scripting & programming Language?

Python is considered as both scripting & Programming language.

## Features of Python

* Easy to learn, easy to understand, easy to maintain
* Because of it’s dynamic nature, we can concentrate on the solution rather than worrying about the syntax.
* It is open source—Available free of cost. Download & learn Python easily.
* Portable --- It works on different platforms(like linux,windows, macintosh) with little or no modification in source code.
* Extensible easily. We can extend the code using different language also.

## Where do we use python?

* Data Analysis
* Web apps, Desktop apps, Mobile apps
* AI / ML
* Automation Testing
* Big Data
* Computational applications
* GUI based web development

## Note :

Top companies such as Google, Netflix, NASA, Bittorrent and many are using python.