

# Python programming notes by Harry

## What is Programming?

Just like we use Hindi or English to communicate with each other, we use a programming language like Python to communicate with the computer.

Programming is a way to instruct the computer to perform various tasks.

## What is Python?

Python is a simple and easy to understand language which feels like reading simple english. This Pseudo Code nature of python makes it easy to learn and understandable by beginners.

## Features of Python

Easy to understand = Less development time

Free and open source

High level language

Portable → Works on Linux / Windows / Mac.

+ Fun to work with

## Installation

Python can be easily installed from [python.org](https://python.org). When you click on the download button, python can be installed right after you complete the setup by executing the file for your platform.

Just install  
it like a game!





## Chapter 1 : Modules, Comments & pip

Let's write our very first python program.  
Create a file called hello.py and paste the below code in it

```
print("Hello World")
```

 → print is a function (More later)

Execute this file (.py file) by typing `python hello.py` and you will see Hello World printed on the screen.

### Modules

A module is a file containing code written by somebody else (usually) which can be imported and used in our programs.

### Pip

Pip is the package manager for python.  
You can use pip to install a module on your system.

→ `pip install flask` installs flask module.

### Types of modules

There are two types of modules in Python

- 1> Built in modules → Pre installed in python
- 2> External modules → Need to install using pip.

Some examples of built in modules are `os`, `abc`, etc.  
Some examples of external modules are `tensorflow`, `flask` etc.