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 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

Lets 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.

Using Python as a Calculator

We can use python as a calculator by typing "python" + ↵ on the terminal

↳ This opens REPL or Read Evaluate Print loop

Comments

Comments are used to write something which the programmer does not want to execute.

↳ Can be used to mark author name, date etc.

Types of Comments

There are two types of comments in Python

1) Single line Comments → Written using #
2) Multi line Comments → Written using ''' comment '''