Python Day-1

What is Python Programming

* Python is a **High Level Language** (whereas C and  Java are not High Level Language).
* Python has a design philosophy that emphasizes

**Code Readability**.

Why Python Programming

* Easy to learn and use.
* Because it is **FREE.**
* Because it is **Open Source.**

Who uses Python

* Google, YouTube, Nokia, Yahoo, etc.

Python IDLE Environment

**IDLE (Integrated Development Learning Environment)**

* IDLE has multi-window text editor with syntax highlighting,  auto-completion, smart indent.
* The **Shell window** execute command at the statement  complete.
* User code written in **Text Editor window.**

Python Data types

**Python has five standard data types**

* Numbers(Integer and Float)
* String
* List (Array)
* Tuple (Constant Array)
* Dictionary

**Variable Number type:**

* Integer (whole number)
* Float (decimal point number)
* Character/String (ASCII format)
* Boolean (True and False)

Python Variable

* **Type of Variable:** Check the type of Variable.

|  |  |  |
| --- | --- | --- |
| **Variable value** | **Type command** | **Result** |
| a=2 | type(a) | <class 'int'> |
| b=3.5 | type(b) | <class 'float'> |
| c=’f’ | type(c) | <class 'str'> |
| d=’abc123’ | type(d) | <class 'str'> |