Module-1
GET Started

1. Knowing The Computer ?
2. What is Python ?
3. Installation
4. Your First Python Program
5. Do's & Don'ts

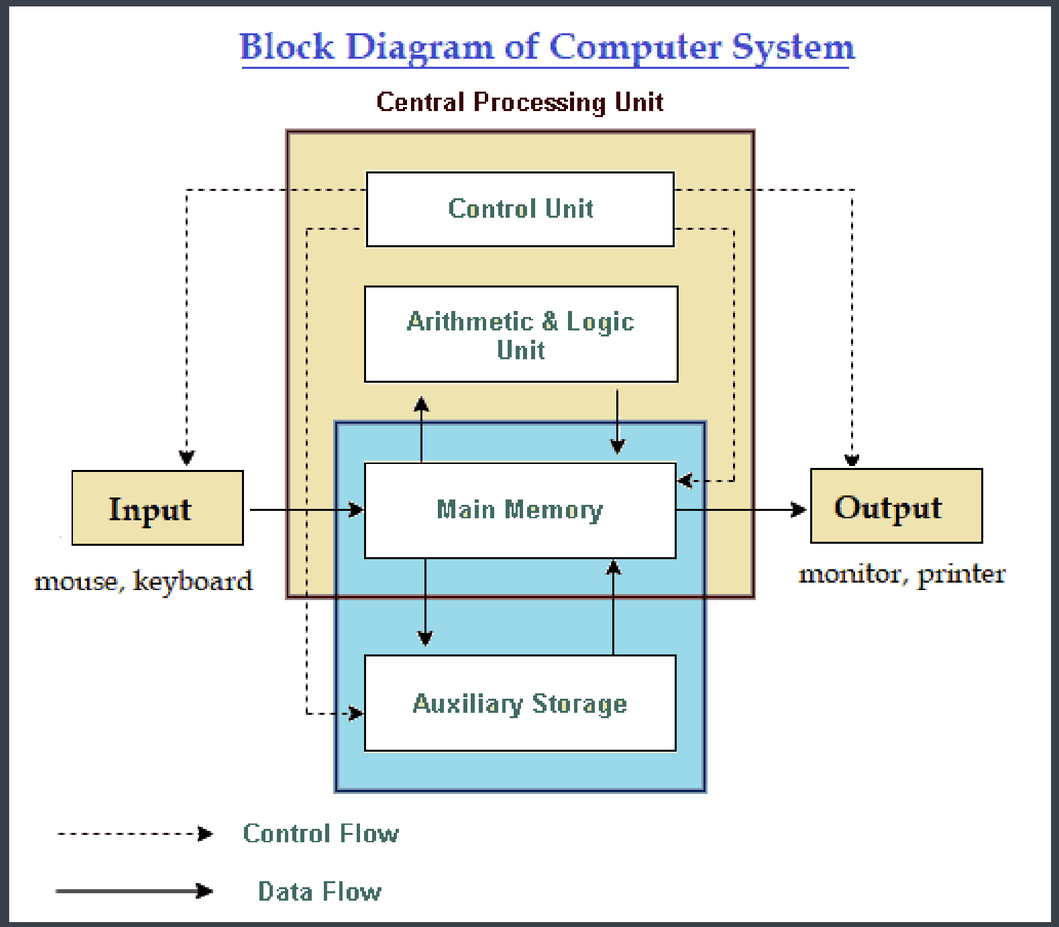
Module 1, CH 1

Knowing the Computer

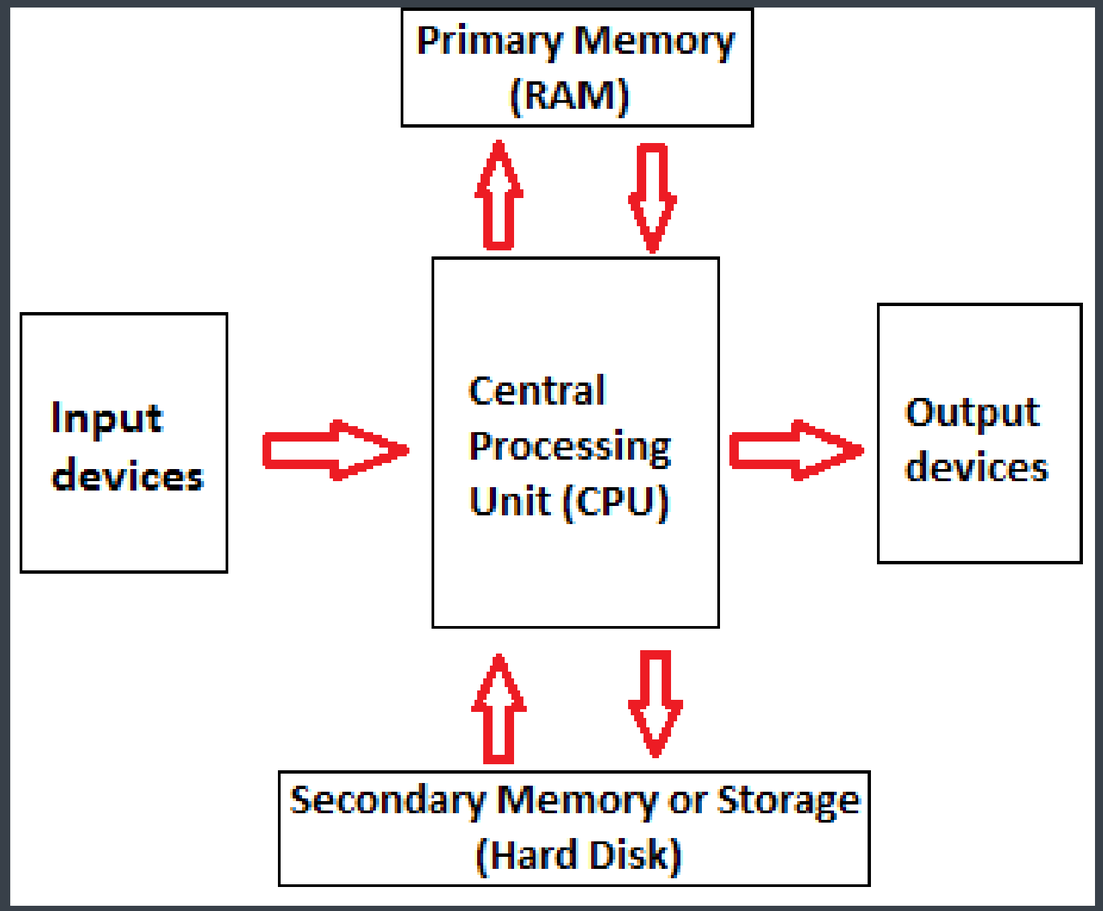
What you will Learn ?

1. Block Diagram of Computer.
2. Memory Hierarchy
3. Principle of Abstraction
4. Language Hierarchy
5. High Level Language (Compiler & Interpreter)

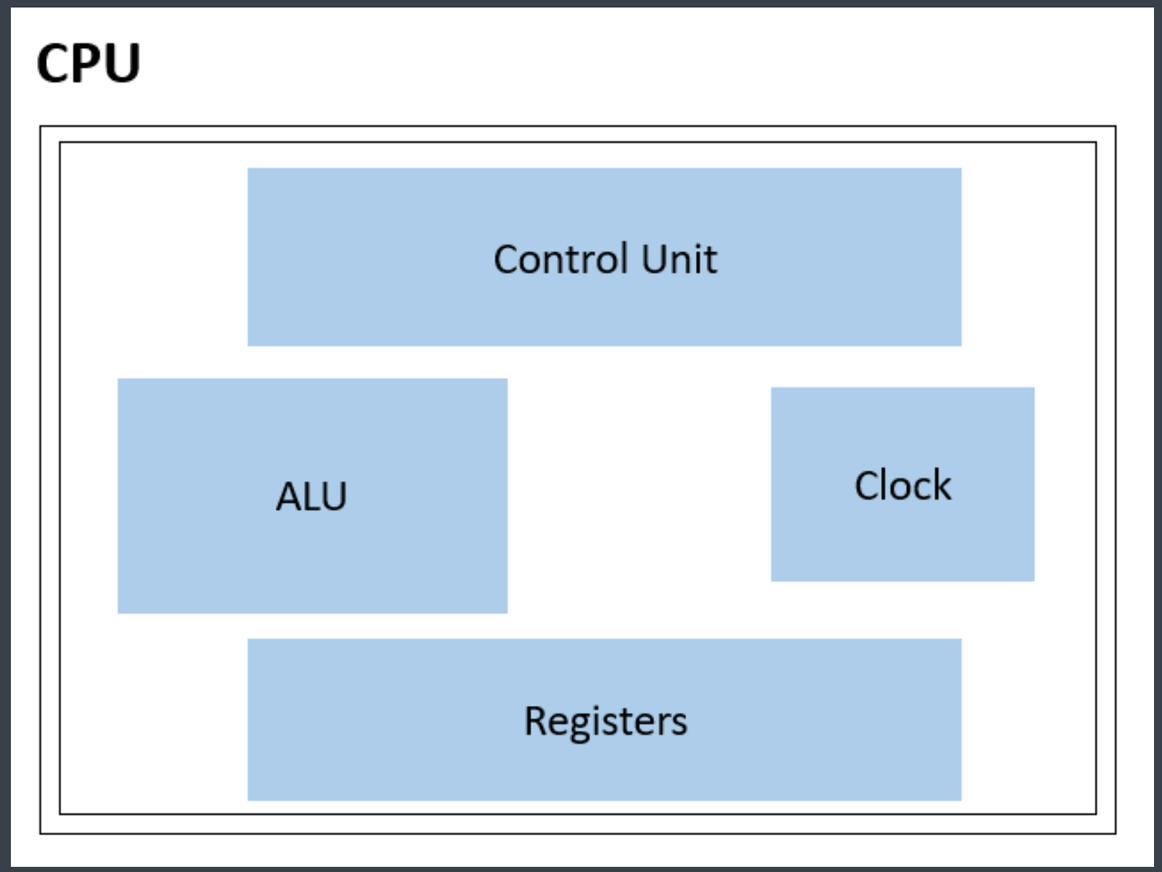
Block diagram of computer



Basic parts of computer



Central Processing Unit



Input & Output

Input devices are important because they allow users to enter commands and data.
Examples: Keyboards, mice, scanners, etc.

Output devices are hardware components of a computer system that are used to show or send data from the pc to the user or any other device.

Memory

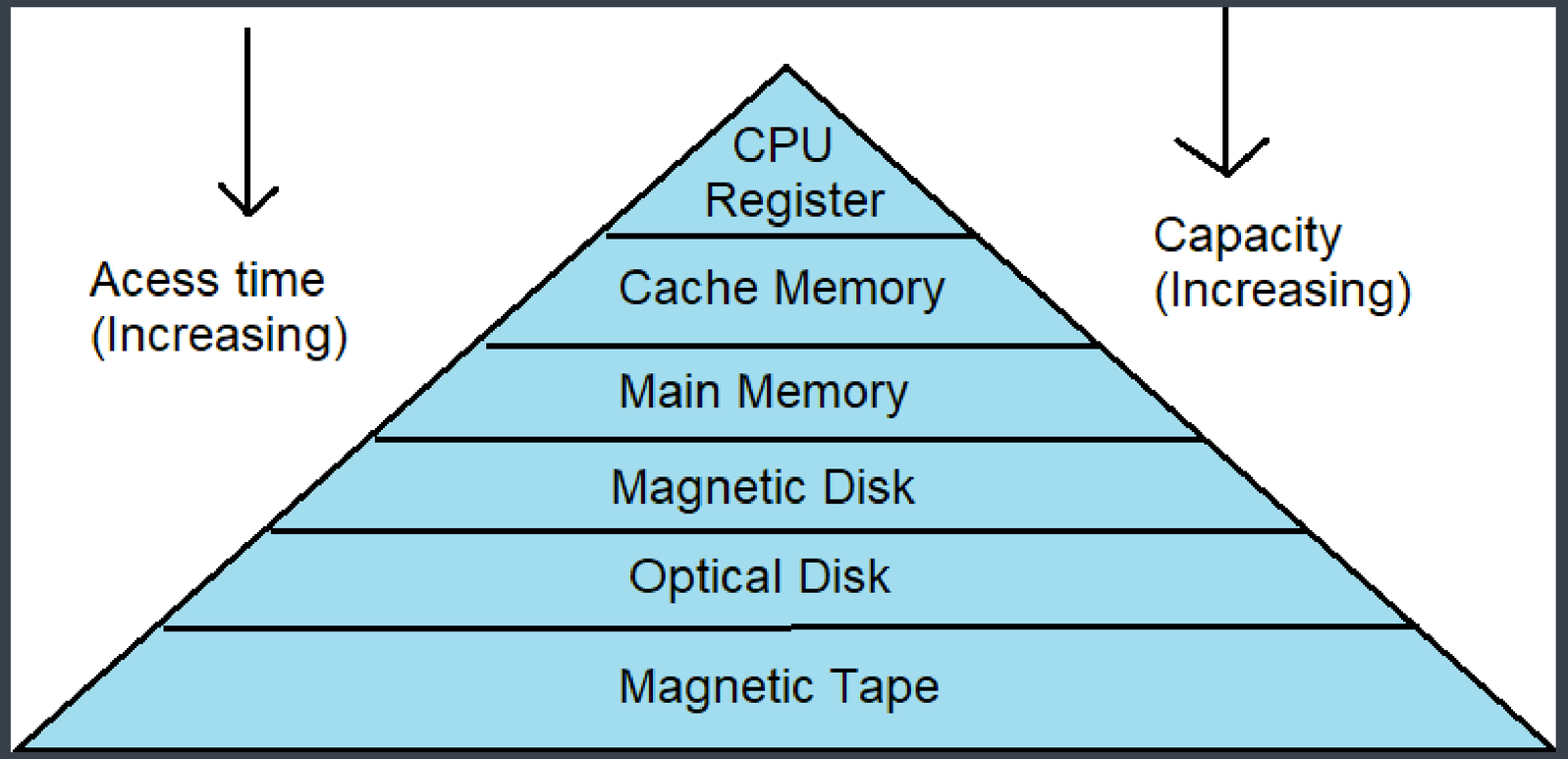
Primary Memory(RAM)

The data and instructions that are currently being processed are kept in primary memory.

Secondary Memory(ROM)

In contrast to primary memory, secondary memory is non-volatile, which means that its contents are not lost when the computer is turned off.

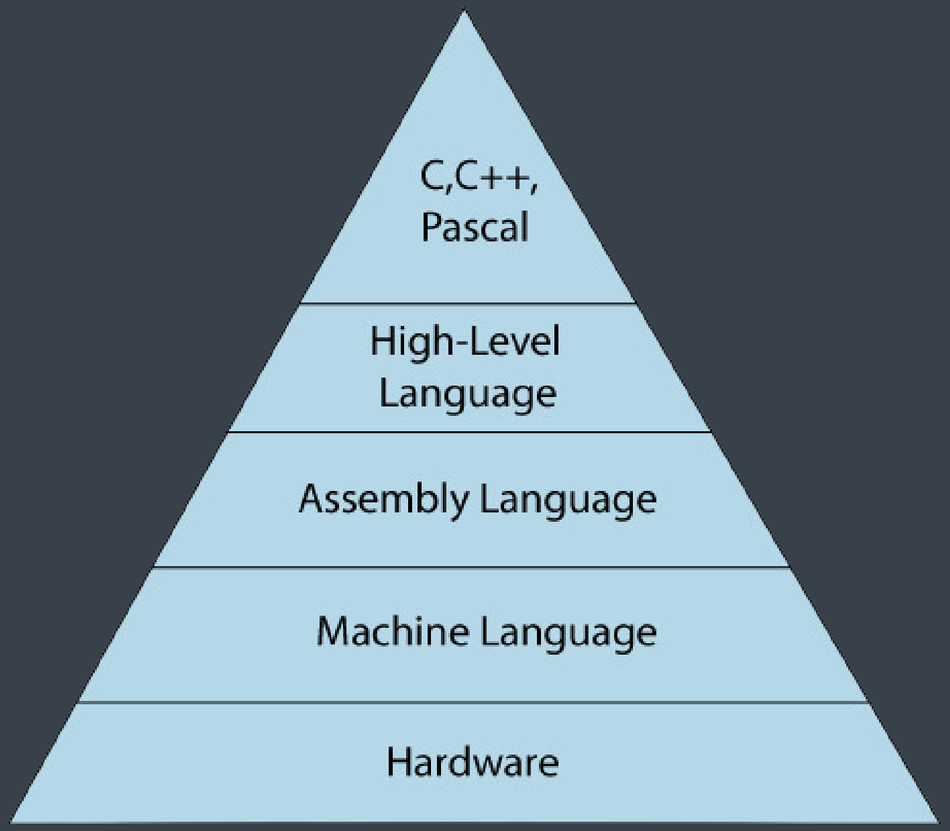
Memory Hierarchy



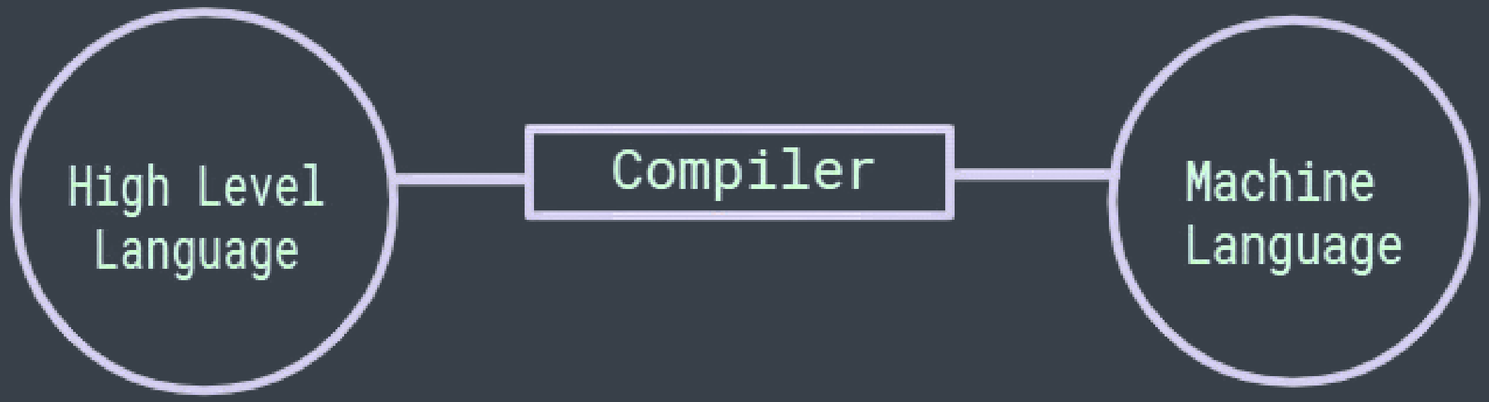
Principle of Abstraction

- **Abstraction** is used to hide the internal functionality of the function from the users.
- The users only interact with the basic implementation of the function, but inner working is hidden

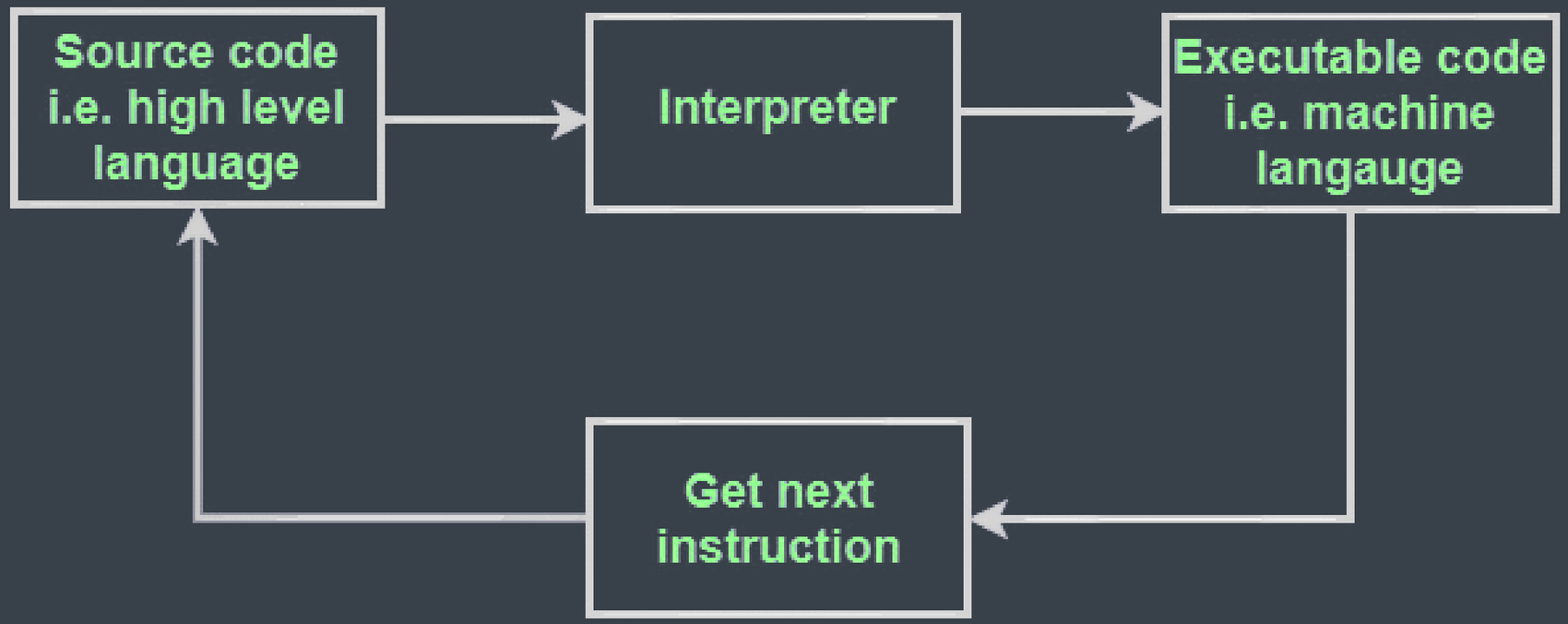
Language hierarchy



How code executes ?



Interpreter (Python)



What You have Learnt ?

1. Block Diagram of Computer.
2. Memory Hierarchy
3. Principle of Abstraction
4. Language Hierarchy
5. High Level Language (Compiler & Interpreter)

Module 1, CH 2

What is Python ?

What is Python ?

- Python is a popular programming language
- Python is a high-level
- Interpreted
- Dynamically-typed
- Simple
- Readable
- Versatile

Applications

It is used for:

- Web development (server-side),
- Software development,
- Machine Learning,
- So on.....

Why Python ?

- Python has a simple syntax.
- Easy to learn.
- Software Development, Web Development & Machine Learning(ML).
- So many projects can be built.
- You can be JOB ready.

What You have Learnt ?

1. **What is Python ?**
2. **Applications**
3. **Why to learn Python ?**

Module 1, CH 3

Installation

Module 1, CH 4

Your First Python Program

Module 1, CH 5

Do's & Don'ts