


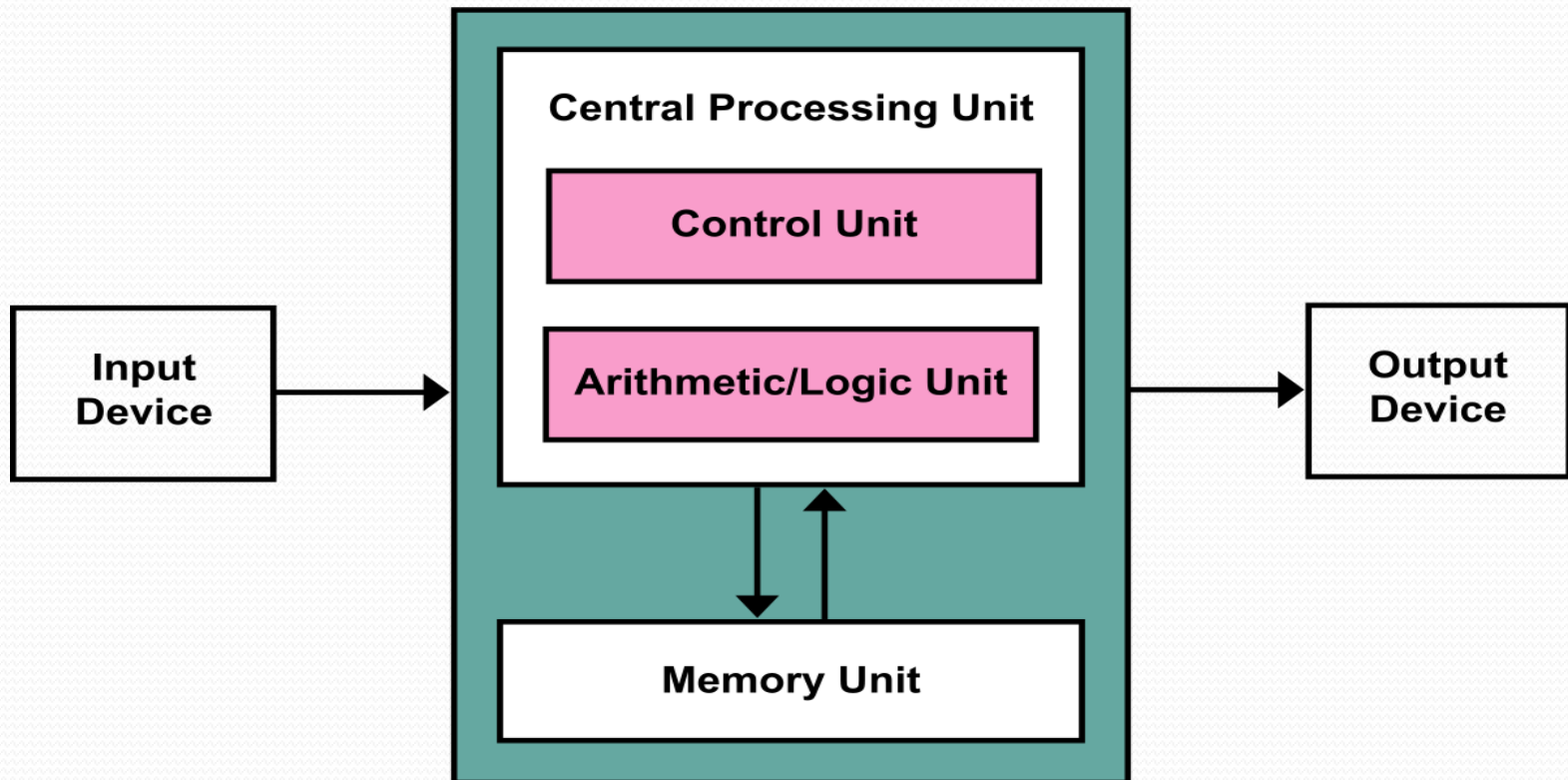
Introdcution to programming



As the Chinese proverb says, a
journey of a thousand miles
begins with a single step

Computers

Machines stores and executes instructions



What Does a Computer do

Fundamentally

perform calculations

A billion calculations per second

Remember Results

100s of gigabytes of storage

What kind of calculations

Arithmetic

Add

Subtract

Divide

Multiply

Logical Operation

Comparison

What kind of calculations

Arithmetic

Add

Subtract

Divide

Multiply

Logical Operation

Comparison



What is Programming

A computer program is a recipe of instructions that tells your computer what to do

The recipe is written in language called programming language

Programming Languages

Are actually similar to humans spoken language's since they've syntax and semantics

Syntax

The rules for how each instruction is written

Semantics

The effect the instructions have



Terminology

Script

A program that is short and written very quickly

Instruction

Order/Direction

Python

- Python is an interpreted, high-level, general-purpose programming language.
- Created by Guido van Rossum and first released in 1991. (wiki)



Python interpreter

In programming, an interpreter is the program that reads and executes code

Uses

1. Web Development
2. Machine learning/ AI
3. Data Science
4. Games

Other Languages

1. Javascript
2. Java
3. C++
4. C



First Python Program

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

Software Needed

- 1) Anaconda (<https://www.anaconda.com/>)
- 2) PyCharm



Setup



Thank You