Chapter2 : Basics of Robot Programming

1/ Introduction to Arduino:

- **Setup**: Install the Arduino IDE and configure the board.
- **Basic Structure** :

```
void setup() {
    // Initialization code
}
void loop() {
    // Repeating code
}
```

2/ **First Projects:**

▶ Blink an LED:

```
void setup() {
    pinMode(13, OUTPUT);
}
void loop() {
    digitalWrite(13, HIGH); // Turn LED on
    delay(1000);            // Wait 1 second
    digitalWrite(13, LOW); // Turn LED off
    delay(1000);
}
```

Control a servo motor using the Servo.h library.

3/ Python Programming:

- Control GPIO pins on Raspberry Pi.
- Example: Turn an LED on/off with a Python script.