Chapter 1- General Overview of Computer Vision Systems
Chapter 2- Fundamentals and Installation of OpenCV
Chapter 3- Data Acquisition with OpenCV and Arduino
```cpp
// Blink

// Runs an LED on for one second, then off for one second, repeatedly.

// This example code is in the public domain.

// Pin 13 has an LED connected on most Arduino boards.
// Give it a name:
int led = 13;

// The setup routine runs once when you press reset:
void setup() {
  // Initialize the digital pin as an output.
  pinMode(led, OUTPUT);
}

// The loop routine runs over and over again forever:
void loop() {
  digitalWrite(led, HIGH);      // turn the LED on (HIGH is the voltage level)
  delay(1000);                  // wait for a second
  digitalWrite(led, LOW);       // turn the LED off by making the voltage LOW
  delay(1000);                  // wait for a second
}
```
Chapter 4- Filtering Data with OpenCV
Chapter 5- Processing Vision Data with OpenCV
Chapter 7 - Communicating with Arduino Using OpenCV

Hello World!
Hello World!
Hello World!
Hello World!
Hello World!

Arduino: I am ready!
Sir: Hello Arduino!
Arduino: Hello Sir!
Sir: How are you?
Arduino: Fine thanks, and you?
Sir: Fine!
Arduino: This makes me happy sir!
Sir: Light up your LED!
Arduino: Surely Sir!
Sir: Light down your LED!
Arduino: Surely Sir!
Sir: Goodbye Arduino!
Arduino: Goodbye Sir!
Serial Terminal

Serial Configuration

COM Port: COM10  BaudRate: 9600

Serial Send

Light down your LED!

Send Data

Serial Receive Terminal

Port opened
Arduino: I am ready!
Message: "Hello Arduino!" sent
Sr: Hello Arduino!
Arduino: Hello Sir!
Message: "How are you?" sent
Sr: How are you?
Arduino: Fine thanks, and you?
Message: "Fine!" sent
Sr: Fine!
Chapter 8- Acting in the Real World with Arduino
T=20ms, f=50 Hz

Duty/Period

1/20, %5

10/20, %50

18/20, %90
You can connect an external power supply if your motor needs more voltage.
Chapter 9- Building a "Click-to-Go" Robot
void setup() {
    // put your setup code here, to run once:
}

void loop() {
    // put your main code here, to run repeatedly:
}
Solution 'OpenCvTemplate' (1 project)
- OpenCvTemplate
  - External Dependencies
  - Header Files
    - blob.h
    - BlobContour.h
    - BlobOperators.h
    - BlobProperties.h
    - BlobResult.h
    - ComponentLabeling.h
    - SerialClass.h
  - Resource Files
  - Source Files
    - blob.cpp
    - BlobContour.cpp
      - BlobLibraryConfiguration.h
    - BlobOperators.cpp
    - BlobProperties.cpp
    - BlobResult.cpp
    - ComponentLabeling.cpp
    - main.cpp
    - Serial.cpp