HARDWARE
we need


```c
#include <wiringPi.h>
#include <stdio.h>
#define LedPin 0

int main(void)
{
wiringPiSetup();

pinMode(LedPin, OUTPUT);


while(1){
digitalWrite(LedPin, LOW); //led on
printf("led on...\n");
delay(500);
digitalWrite(LedPin, HIGH); //led off
printf("...led off\n");
delay(500);
}
return 0;
```
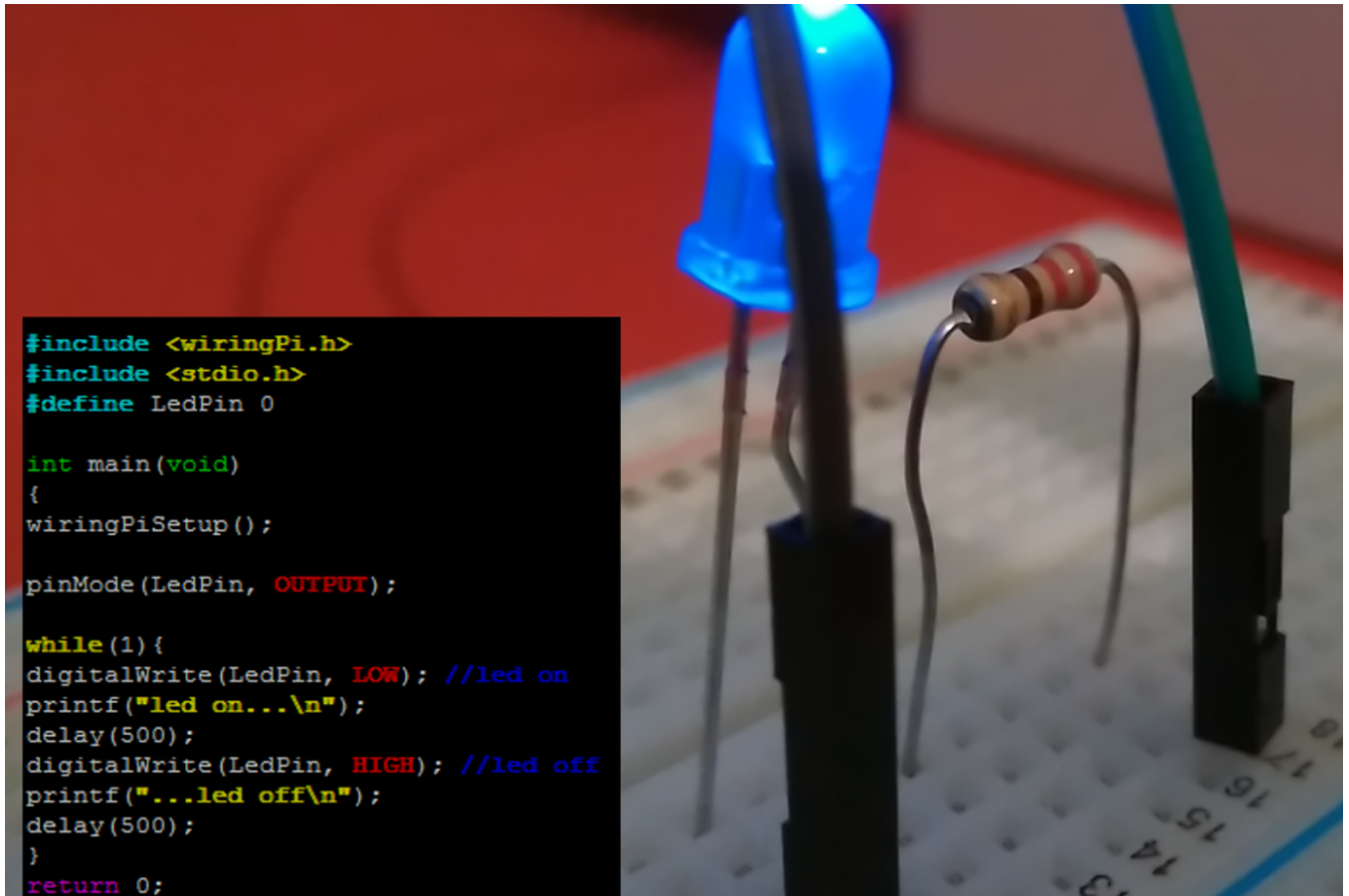
1 x Raspberry Pi

Raspberry Pi B+, Raspberry Pi 2,
     Raspberry Pi 3

1 x Breadboard

1 x 220 Ohm Resistor

1 x Led

1 x Button

1 x Buzzer

1 x DHT11 sensor

1 x Tilt sensor

1 x RaspiCam

Important:
If you don't want to do all projects, this is perfectly fine.

The projects are totally independent from each other.

On the next page, I've listed all projects separately

with the needed materials.

Project: Blinking LED

Material:
1 x Raspberry Pi
1 x Breadboard
2 x Jumper Wires
1 x Resistor 220 Ohm
1 x LED

Project: Breathing LED

Material:
1 x Raspberry Pi
1 x Breadboard
2 x Jumper Wires
1 x Resistor 220 Ohm

Project: Controlling a LED by a Button

Material:
1 x Raspberry Pi
1 x Breadboard
4 x Jumper Wires
1 x Resistor 220 Ohm

Project: RaspiCam projects

Material:
1 x Raspberry Pi
1 x Breadboard
1 x RaspiCam
1 x Button
2 x Jumper Wires

Project: Basic Project with a Buzzer

Material:
1 x Raspberry Pi
1 x Breadboard
1 x Buzzer
2 x Jumper Wires

Project: Tilt sensor projects

Material:
1 x Raspberry Pi
1 x Breadboard
4 x Jumper Wires
1 x Resistor 220 Ohm
1 x Tilt sensor
1 x Led/ 1x Buzzer

Project: Reading from a DHT11 sensor

Material:
1 x Raspberry Pi
1 x Breadboard
3 x Jumper Wires
1 x Resistor 220 Ohm
1 x DHT11 sensor