const int button1Pin = 2;

const int ledPin1 = 10;

const int ledPin2 = 11;

const int ledPin3 = 12;

const int ledPin4 = 13;

void setup()

{

pinMode(button1Pin, INPUT);

pinMode(ledPin1, OUTPUT);

pinMode(ledPin2, OUTPUT);

pinMode(ledPin3, OUTPUT);

pinMode(ledPin4, OUTPUT);

}

void loop()

{

int button1State; // variables to hold the pushbutton states

button1State = digitalRead(button1Pin);

if (button1State == LOW)

{

// First series of light flashes

digitalWrite(ledPin1, HIGH);

delay (75);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (75);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (75);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (75);

digitalWrite(ledPin4, LOW);

delay (1000);

digitalWrite(ledPin1, HIGH);

delay (75);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (75);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (75);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (75);

digitalWrite(ledPin4, LOW);

delay (1000);

digitalWrite(ledPin1, HIGH);

delay (75);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (75);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (75);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (75);

digitalWrite(ledPin4, LOW);

delay (1000);

// Second Series of Flashes

digitalWrite(ledPin1, HIGH);

delay (75);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (75);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (75);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (75);

digitalWrite(ledPin4, LOW);

delay (500);

digitalWrite(ledPin1, HIGH);

delay (75);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (75);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (75);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (75);

digitalWrite(ledPin4, LOW);

delay (500);

digitalWrite(ledPin1, HIGH);

delay (75);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (75);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (75);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (75);

digitalWrite(ledPin4, LOW);

delay (500);

// Third set of flashes

digitalWrite(ledPin1, HIGH);

delay (75);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (75);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (75);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (75);

digitalWrite(ledPin4, LOW);

delay (250);

digitalWrite(ledPin1, HIGH);

delay (50);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (50);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (50);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (50);

digitalWrite(ledPin4, LOW);

delay (250);

digitalWrite(ledPin1, HIGH);

delay (50);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (50);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (50);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (50);

digitalWrite(ledPin4, LOW);

delay (250);

digitalWrite(ledPin1, HIGH);

delay (50);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (50);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (50);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (50);

digitalWrite(ledPin4, LOW);

delay (250);

// Forth Set of flashes

digitalWrite(ledPin1, HIGH);

delay (50);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (50);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (50);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (50);

digitalWrite(ledPin4, LOW);

delay (125);

digitalWrite(ledPin1, HIGH);

delay (50);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (50);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (50);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (50);

digitalWrite(ledPin4, LOW);

delay (125);

digitalWrite(ledPin1, HIGH);

delay (50);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (50);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (50);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (50);

digitalWrite(ledPin4, LOW);

delay (125);

// Fifth Set of flashes

digitalWrite(ledPin1, HIGH);

delay (40);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (40);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (40);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (40);

digitalWrite(ledPin4, LOW);

delay (80);

digitalWrite(ledPin1, HIGH);

delay (40);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (40);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (40);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (40);

digitalWrite(ledPin4, LOW);

delay (80);

digitalWrite(ledPin1, HIGH);

delay (40);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (40);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (40);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (40);

digitalWrite(ledPin4, LOW);

delay (80);

digitalWrite(ledPin1, HIGH);

delay (40);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (40);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (40);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (40);

digitalWrite(ledPin4, LOW);

delay (80);

digitalWrite(ledPin1, HIGH);

delay (40);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (40);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (40);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (40);

digitalWrite(ledPin4, LOW);

delay (80);

digitalWrite(ledPin1, HIGH);

delay (40);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (40);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (40);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (40);

digitalWrite(ledPin4, LOW);

delay (80);

digitalWrite(ledPin1, HIGH);

delay (40);

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, HIGH);

delay (40);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, HIGH);

delay (40);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, HIGH);

delay (40);

digitalWrite(ledPin4, LOW);

delay (80);

//Flash out

digitalWrite(ledPin4, HIGH);

digitalWrite(ledPin3, HIGH);

digitalWrite(ledPin2, HIGH);

digitalWrite(ledPin1, HIGH);

delay (150);

digitalWrite(ledPin4, LOW);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin1, LOW);

delay (60);

digitalWrite(ledPin4, HIGH);

digitalWrite(ledPin3, HIGH);

digitalWrite(ledPin2, HIGH);

digitalWrite(ledPin1, HIGH);

delay (150);

digitalWrite(ledPin4, LOW);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin1, LOW);

delay (60);

digitalWrite(ledPin4, HIGH);

digitalWrite(ledPin3, HIGH);

digitalWrite(ledPin2, HIGH);

digitalWrite(ledPin1, HIGH);

delay (150);

digitalWrite(ledPin4, LOW);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin1, LOW);

delay (60);

digitalWrite(ledPin4, HIGH);

digitalWrite(ledPin3, HIGH);

digitalWrite(ledPin2, HIGH);

digitalWrite(ledPin1, HIGH);

delay (150);

digitalWrite(ledPin4, LOW);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin1, LOW);

delay (60);

digitalWrite(ledPin4, HIGH);

digitalWrite(ledPin3, HIGH);

digitalWrite(ledPin2, HIGH);

digitalWrite(ledPin1, HIGH);

delay (150);

digitalWrite(ledPin4, LOW);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin1, LOW);

delay (60);

digitalWrite(ledPin4, HIGH);

digitalWrite(ledPin3, HIGH);

digitalWrite(ledPin2, HIGH);

digitalWrite(ledPin1, HIGH);

delay (150);

digitalWrite(ledPin4, LOW);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin1, LOW);

delay (60);

digitalWrite(ledPin4, HIGH);

digitalWrite(ledPin3, HIGH);

digitalWrite(ledPin2, HIGH);

digitalWrite(ledPin1, HIGH);

delay (150);

digitalWrite(ledPin4, HIGH);

digitalWrite(ledPin3, HIGH);

digitalWrite(ledPin2, HIGH);

digitalWrite(ledPin1, HIGH);

delay (3000);

digitalWrite(ledPin4, LOW);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin1, LOW);

}

else

{

digitalWrite(ledPin1, LOW);

digitalWrite(ledPin2, LOW);

digitalWrite(ledPin3, LOW);

digitalWrite(ledPin4, LOW);

}}