**LDR-Based Light Controller**

#define relay 10

int LED = 9;

int LDR = A0;

void setup() {

Serial.begin(9600);

pinMode(LED, OUTPUT);

pinMode(relay, OUTPUT);

pinMode(LDR, INPUT);

}

void loop() {

int LDRValue = analogRead(LDR);

Serial.print("Sensor = ");

Serial.println(LDRValue);

if (LDRValue <= 700) {

digitalWrite(LED, HIGH);

digitalWrite(relay, HIGH);

Serial.println("It's Dark Outside; Lights status: ON");

} else {

digitalWrite(LED, LOW);

digitalWrite(relay, LOW);

Serial.println("It's Bright Outside; Lights status: OFF");

}

delay(1000);

**LED Blinking Sequence**

void setup() {

pinMode(8, OUTPUT);

pinMode(9, OUTPUT);

pinMode(10, OUTPUT);

pinMode(11, OUTPUT);

}

void loop() {

digitalWrite(8, HIGH);

delay(10);

digitalWrite(8, LOW);

delay(10);

digitalWrite(9, HIGH);

delay(10);

digitalWrite(9, LOW);

delay(10);

digitalWrite(10, HIGH);

delay(10);

digitalWrite(10, LOW);

delay(10);

digitalWrite(11, HIGH);

delay(10);

digitalWrite(11, LOW);

delay(10);

}