



```

61
62 // Display 1
63 digitalWrite(pinA, HIGH);
64 digitalWrite(pinB, LOW);
65 digitalWrite(pinC, LOW);
66 digitalWrite(pinD, HIGH);
67 digitalWrite(pinE, HIGH);
68 digitalWrite(pinF, HIGH);
69 digitalWrite(pinG, HIGH);
70 delay(1000);
71
72 // Green (just the green LED on)
73 digitalWrite(RED_PIN, LOW);
74 digitalWrite(GREEN_PIN, HIGH);
75 digitalWrite(BLUE_PIN, LOW);
76
77 // Display 5
78 digitalWrite(pinA, LOW);
79 digitalWrite(pinB, HIGH);
80 digitalWrite(pinC, LOW);
81 digitalWrite(pinD, LOW);
82 digitalWrite(pinE, HIGH);
83 digitalWrite(pinF, LOW);
84 digitalWrite(pinG, LOW);
85 delay(1000);
86
87 // Display 4
88 digitalWrite(pinF, LOW);
89 digitalWrite(pinG, LOW);
90 delay(1000);
91
92 // Display 4 again

```

```

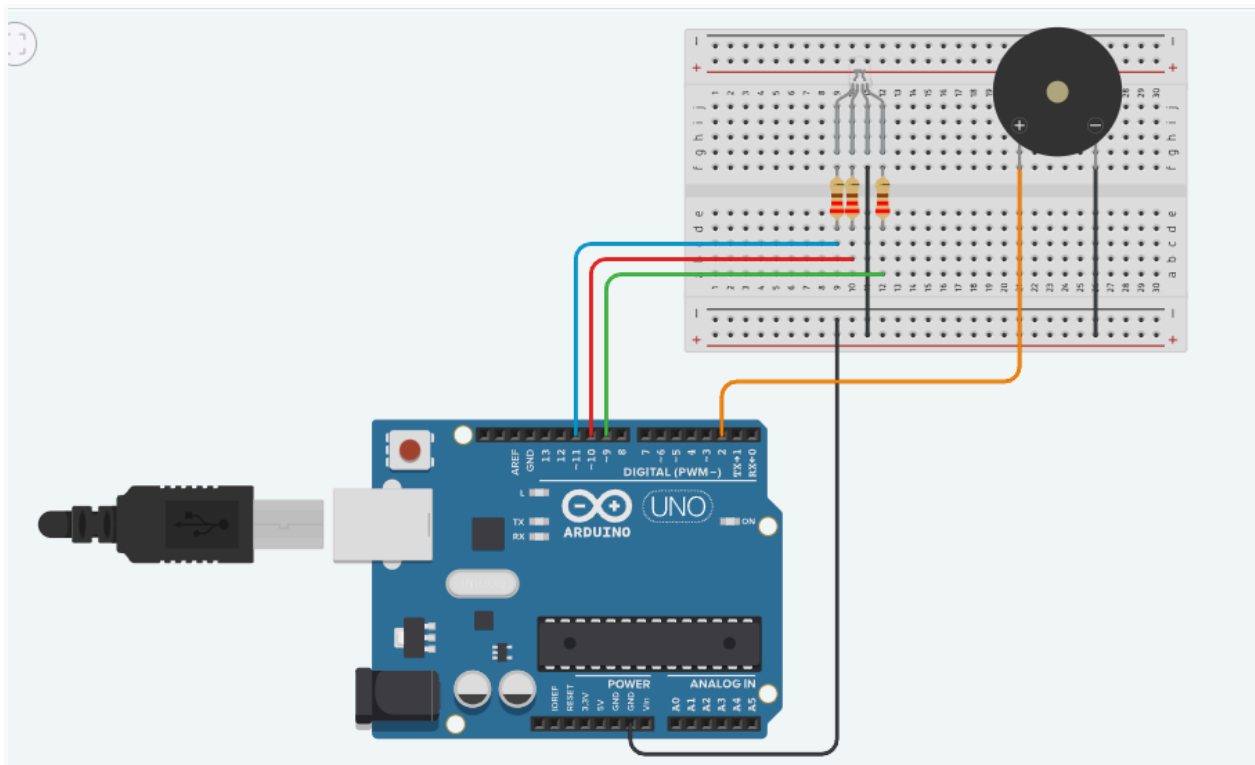
79 -----,-----,-----,
80 digitalWrite(pinB, HIGH);
81 digitalWrite(pinC, LOW);
82 digitalWrite(pinD, LOW);
83 digitalWrite(pinE, HIGH);
84 digitalWrite(pinF, LOW);
85 digitalWrite(pinG, LOW);
86 delay(1000);
87
88 // Display 4
89 digitalWrite(pinF, LOW);
90 digitalWrite(pinG, LOW);
91 delay(1000);
92
93 // Display 4 again
94 digitalWrite(pinA, HIGH);
95 digitalWrite(pinE, HIGH);
96 delay(1000);
97
98 // Display 3
99 digitalWrite(pinD, LOW);
100 delay(1000);
101
102 // Display 2
103 digitalWrite(pinF, HIGH);
104 delay(1000);
105
106 // Display 1
107 digitalWrite(pinB, LOW);
108 delay(1000);
109 }

```

Serial Monitor

Serial Monitor

## 2. RGB + Buzzer + LDR



Text 1 (Arduino Uno R3)

```
1 int buzzer = 2;
2 int RED_PIN = 9;
3 int GREEN_PIN = 10;
4 int BLUE_PIN = 11;
5
6 int ldrPin = A0; // LDR analog pin
7 int ldrValue = 0; // Variable to store LDR reading
8
9 void setup() {
10   pinMode(buzzer, OUTPUT);
11   pinMode(RED_PIN, OUTPUT);
12   pinMode(GREEN_PIN, OUTPUT);
13   pinMode(BLUE_PIN, OUTPUT);
14   Serial.begin(9600); // Optional: For debugging the LDR reading
15 }
16
17 void loop() {
18   ldrValue = analogRead(ldrPin); // Read LDR value
19   Serial.println(ldrValue);      // Debug: Print LDR value
20
21   if (ldrValue < 500) { // Dark environment
22     digitalWrite(buzzer, HIGH); // Buzzer ON
23
24     // RED
25     digitalWrite(RED_PIN, HIGH);
26     digitalWrite(GREEN_PIN, LOW);
27     digitalWrite(BLUE_PIN, LOW);
28     delay(500);
29
30     digitalWrite(buzzer, LOW); // Buzzer OFF
31
32     // GREEN
```

Serial Monitor

Text 1 (Arduino Uno R3)

```
17 void loop() {
18   ldrValue = analogRead(ldrPin); // Read LDR value
19   Serial.println(ldrValue);      // Debug: Print LDR value
20
21   if (ldrValue < 500) { // Dark environment
22     digitalWrite(buzzer, HIGH); // Buzzer ON
23
24     // RED
25     digitalWrite(RED_PIN, HIGH);
26     digitalWrite(GREEN_PIN, LOW);
27     digitalWrite(BLUE_PIN, LOW);
28     delay(500);
29
30     digitalWrite(buzzer, LOW); // Buzzer OFF
31
32     // GREEN
33     digitalWrite(RED_PIN, LOW);
34     digitalWrite(GREEN_PIN, HIGH);
35     digitalWrite(BLUE_PIN, LOW);
36     delay(500);
37   } else { // Bright environment
38     // BLUE only, no sound
39     digitalWrite(RED_PIN, LOW);
40     digitalWrite(GREEN_PIN, LOW);
41     digitalWrite(BLUE_PIN, HIGH);
42     digitalWrite(buzzer, LOW);
43   }
44
45   delay(100); // Small delay to reduce flickering
46 }
47
```

Serial Monitor