LINK:

https://wokwi.com/projects/359973444096183297

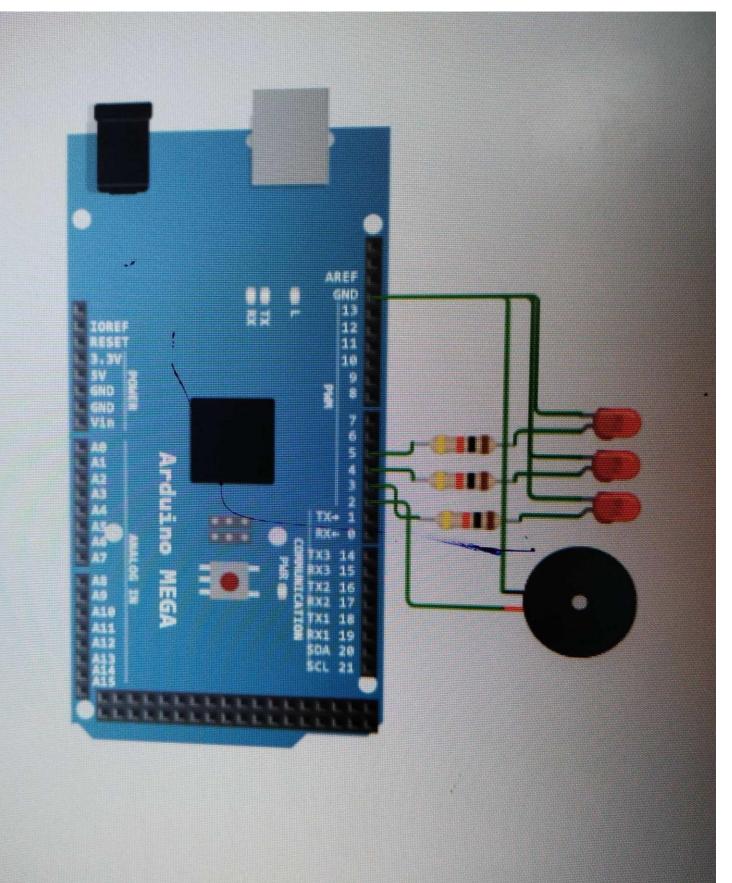
```
const int buzzerPin = 2;
1
     const int ledPin1 = 3;
2
     const int ledPin2 = 4:
3
     const int ledPin3 = 5;
4
5
     int menuSelection = 0;
 6
     int ledSpeed = 500;
7
     int ledBrightness = 128;
8
     int selection = 0;
9
     int buzzerState = LOW;
10
11
12
     void setup() {
      Serial.begin(9600);
13
14
       pinMode(buzzerPin, OUTPUT);
15
       pinMode(ledPin1, OUTPUT);
16
       pinMode(ledPin2, OUTPUT);
17
       pinMode(ledPin3, OUTPUT);
18
19
        digitalWrite(buzzerPin, LOW);
20
        digitalwrite(ledPin1, LOW);
21
        digitalWrite(ledPin2, LOW);
22
        digitalWrite(ledPin3, LOW);
23
24
        Serial.println("MENU:");
        Serial.println("1. Toggle buzzer on/off");
25
        Serial.println("2. Increase LED 2 speed");
26
        Serial.println("3. Decrease LED 2 speed");
27
```

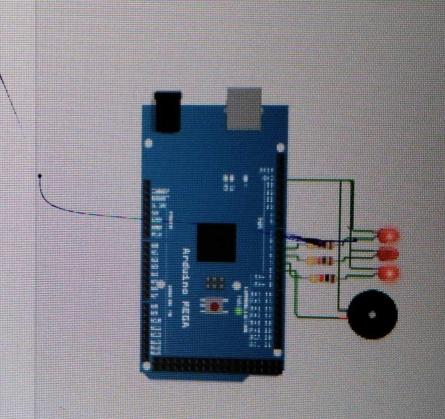
```
serval printin(13. Decrease LED 2 speed );
21
        Serial.println("4. Toggle LED 3 brightness");
28
       Serial.println();
29
        Serial.print("Selection: ");
30
31
32
     void loop() {
33
       int buzzerPinStateLast = digitalRead(buzzerPin);
34
       if (Serial.available()) {
35
         int inputChar = Serial.parseInt();
36
37
         switch (inputChar) {
38
39
           case 1:
           //Serial.println ("1");
40
           //digitalWrite(buzzerPin, !digitalRead(buzzerPin));
41
             ToggleBuzzer();
42
             selection = 0;
43
44
             break;
45
           case 2:
           Serial.println("case 2");
46
             ledSpeed -= 50;
47
             if (ledSpeed < 50) {
48
               ledSpeed = 50;
49
50
51
             break;
52
           case 3:
           5erial.println("case 3");
53
```

```
ledSpeed += 50;
54
              if (ledSpeed > 1000) {
55
             ledSpeed = 1000;
56
57
             break;
58
           case 4:
59
           Serial.println("case 4");
60
             if (ledBrightness == 0) {
61
             ledBrightness = 128;
62
                                                               I
             } else {
63
               ledBrightness = 0;
64
65
66
             break;
67
           default:
68
            break;
69
70
71
       digitalWrite(ledPin1, !digitalRead(ledPin1));
72
73
       delay(500);
74
       static unsigned long lastBlinkTime = 0;
76
       if (millis() - lastBlinkTime > ledSpeed) {
        digitalWrite(ledPin2, !digitalRead(ledPin2));
78
         lastBlinkTime = millis();
```

```
lastBlinkTime = millis();
 79
        }
 80
        analogWrite(ledPin3, ledBrightness);
 81
      //Serial.println("MENU:");
 82
        //Serial.println("1. Toggle buzzer on/off");
 83
        //Serial.println("2. Increase LED 2 speed");
 84
        //Serial.println("3. Decrease LED 2 speed");
 85
        //Serial.println("4. Toggle LED 3 brightness");
 86
        //Serial.println();
 87
        //Serial.print("Selection: ");
88
89
        //delay (5000)
90
91
92
      void ToggleBuzzer ()
93
      {
        buzzerState= (buzzerState) ? LOW : HIGH;
94
95
          digitalWrite(buzzerPin, buzzerState);
96
        //int a = digitalWrite(buzzerPin, LOW);
        //if (a == 1)
97
98
          //digitalWrite(buzzerPin, HIGH);
99
          //digitalWrite(buzzerPin HIGH); attempt no. 3 failed with multiple errors
100
101
       // } else
102
103
            digitalWrite(buzzerPin, LOW);
```

```
buzzerState= (buzzerState) ? LOW : HIGH;
94
       digitalWrite(buzzerPin, buzzerState);
95
       //int a = digitalWrite(buzzerPin, LOW);
96
       //if (a == 1)
97
       118
98
         //digitalWrite(buzzerPin, HIGH);
99
         //digitalWrite(buzzerPin HIGH); attempt no. 3 failed with multiple errors
100
       // } else
101
                                                            T
       11 {
102
           digitalWrite(buzzerPin, LOW);
103
       11 }
104
105
106
107
```





MENU:

- 1. Toggle buzzer on/off
- 2. Increase LED 2 speed
- 3. Decrease LED 2 speed
- 4. Toggle LED 3 brightness

Selection: