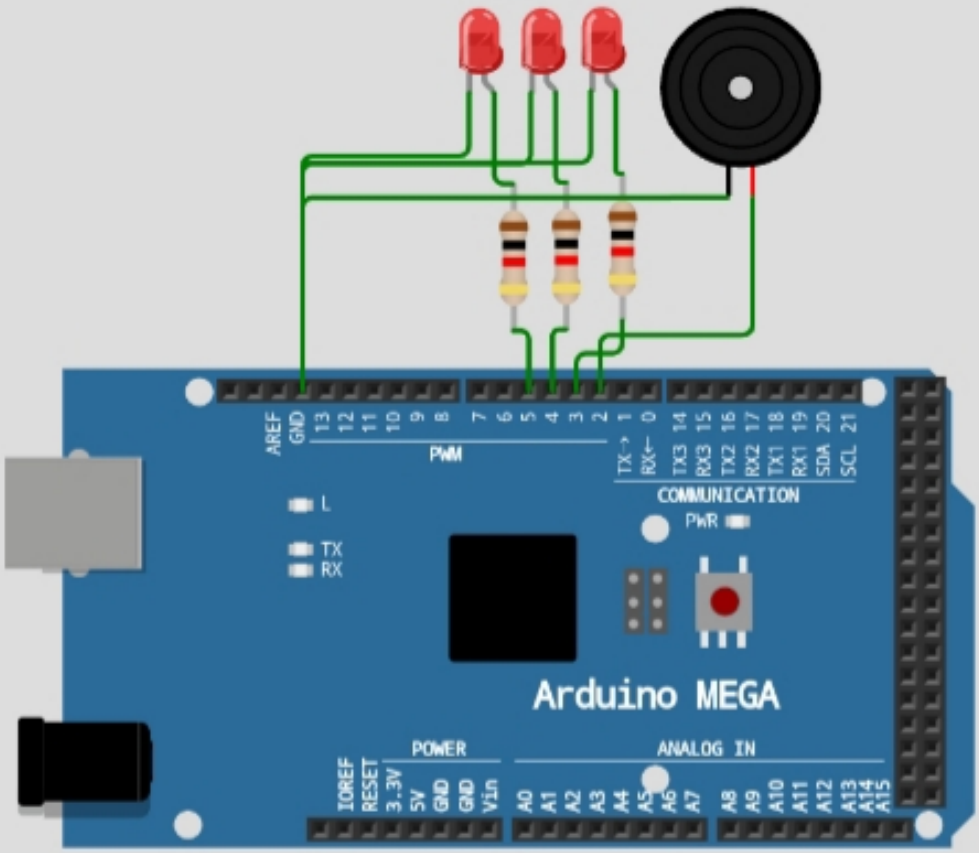
AREF
GND
13
12
11
10
9
8
7
6
5
4
3
2
1
0
PWM
TX→
RX←
TX3
RX3
TX2
RX2
TX1
RX1
SDA
SCL
14
15
16
17
18
19
20
21
COMMUNICATION
L
TX
RX
PWR
Arduino MEGA
POWER
ANALOG IN
IOREF
RESET
3.3V
5V
GND
GND
Vin
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15

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```
const int buzzerPin = 2;
const int ledPin1 = 3;
const int ledPin2 = 4;
const int ledPin3 = 5;

int menuSelection = 0;
int ledSpeed = 500;
int ledBrightness = 128;
int selection = 0;
int buzzerState = LOW;

void setup() {
  Serial.begin(9600);

  pinMode(buzzerPin, OUTPUT);
  pinMode(ledPin1, OUTPUT);
  pinMode(ledPin2, OUTPUT);
  pinMode(ledPin3, OUTPUT);

  digitalWrite(buzzerPin, LOW);
  digitalWrite(ledPin1, LOW);
  digitalWrite(ledPin2, LOW);
  digitalWrite(ledPin3, LOW);
  Serial.println("MENU:");
  Serial.println("1. Toggle buzz
  Serial.println("2. Increase LE
  Serial.println("3. Decrease LE
```

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```
34  int buzzerPinStateLast = digit
35  if (Serial.available()) {
36    int inputChar = Serial.parse
37
38    switch (inputChar) {
39      case 1:
40      //Serial.println ("1");
41      //digitalWrite(buzzerPin,
42        ToggleBuzzer();
43        selection = 0;
44        break;
45      case 2:
46      Serial.println("case 2");
47        ledSpeed -= 50;
48        if (ledSpeed < 50) {
49          ledSpeed = 50;
50        }
51        break;
52      case 3:
53      Serial.println("case 3");
54        ledSpeed += 50;
55        if (ledSpeed > 1000) {
56          ledSpeed = 1000;
57        }
58        break;
59      case 4:
60      Serial.println("case 4");
```

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```
65            }
66            break;
67          default:
68            break;
69        }
70      }
71
72      digitalWrite(ledPin1, !digital
73      delay(500);
74
75      static unsigned long lastBlink
76      if (millis() - lastBlinkTime >
77        digitalWrite(ledPin2, !digit
78        lastBlinkTime = millis();
79      }
80
81      analogWrite(ledPin3, ledBright
82    //Serial.println("MENU:");
83      //Serial.println("1. Toggle bu
84      //Serial.println("2. Increase
85      //Serial.println("3. Decrease
86      //Serial.println("4. Toggle LE
87      //Serial.println();
88      //Serial.print("Selection: ");
89      //delay (5000)
90
91    }
```

```
88      //Serial.print("Selection: ");
89      //delay (5000)
90
91    }
92    void ToggleBuzzer ()
93    {
94      buzzerState= (buzzerState) ? L
95        digitalWrite(buzzerPin, buzz
96      //int a = digitalWrite(buzzerP
97      //if (a == 1)
98      //{
99        //digitalWrite(buzzerPin, HI
100       //digitalWrite(buzzerPin HIG
101    // } else
102    // {
103    //   digitalWrite(buzzerPin, LO
104    // }
105
106   }
107
```