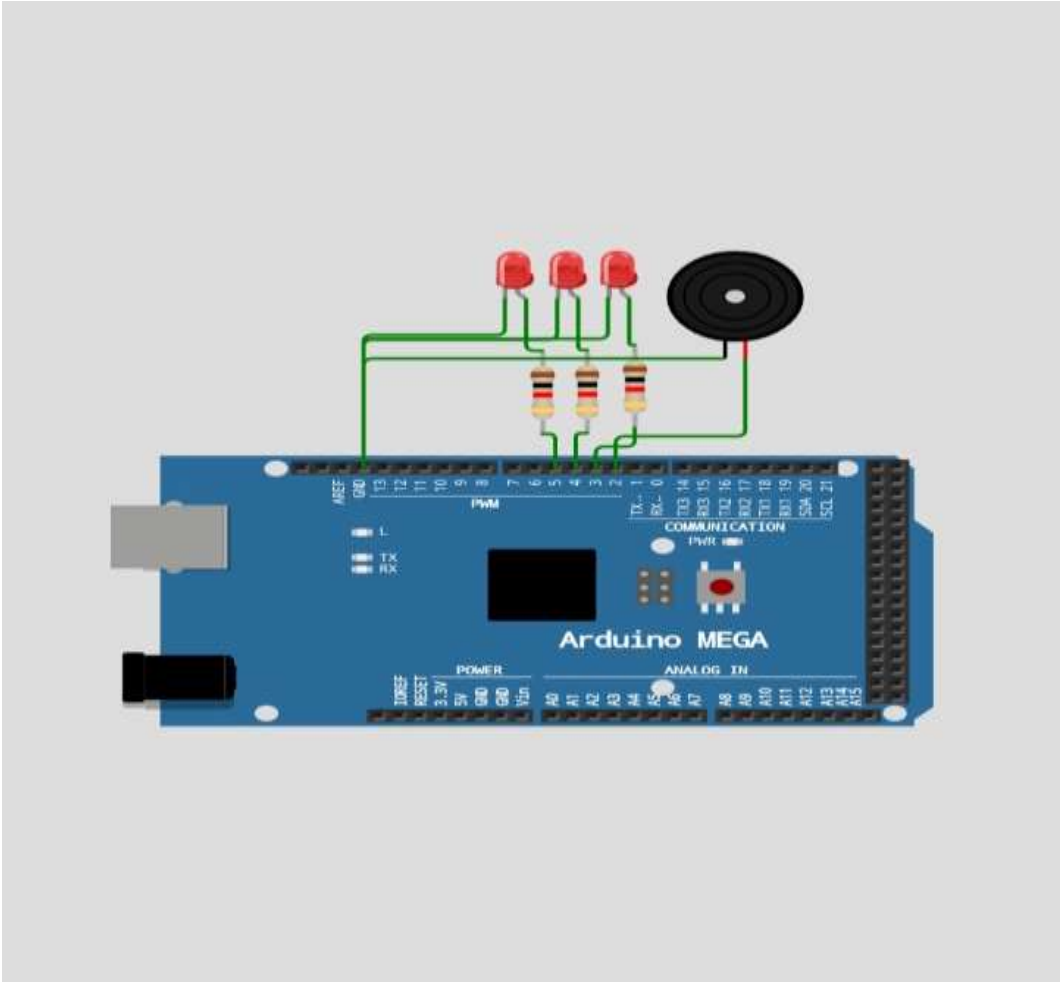
ASSIGNMENT - 1

K.PREETHI

ECE – III YEAR

Build a smart home in wok wi with minimum 2 sensor, led, buzzer.



```
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
  Serial.println("4. Toggle LED
  Serial.println();
  Serial.print("Selection: ");
}

```

```
32
33  void loop() {
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");
61          if (ledBrightness == 0)
62            ledBrightness = 128;
63          } else {
```

```
64            ledBrightness = 0;
65          }
66          break;
67        default:
68          break;
69      }
70    }
71
72    digitalWrite(ledPin1, !digitalF
73    delay(500);
74
75    static unsigned long lastBlinkT
76    if (millis() - lastBlinkTime >
77      digitalWrite(ledPin2, !digita
78      lastBlinkTime = millis();
79    }
80
81    analogWrite(ledPin3, ledBrightn
82  '/Serial.println("MENU:");
83    //Serial.println("1. Toggle buz
84    //Serial.println("2. Increase L
85    //Serial.println("3. Decrease L
86    //Serial.println("4. Toggle LED
87    //Serial.println();
88    //Serial.print("Selection: ");
89    //delay (5000)
90
91  .
92  oid ToggleBuzzer ()
93  :
94    buzzerState= (buzzerState) ? LO
95      digitalWrite(buzzerPin, buzze
```

```
96      //int a = digitalWrite(buzzerPi
97      //if (a == 1)
98      //{
99        //digitalWrite(buzzerPin, HIG
100       //digitalWrite(buzzerPin HIGH
101   // } else
102   // {
103   //   digitalWrite(buzzerPin, LOW
104   // }
105
106
```