```
multiple servo.ino
```

```
...
```

```
#include <Servo.h>
    //servo
    Servo servo1;
 5
    Servo servo2;
    Servo servo3;
 8
 9
10
    Servo servo4;
11
12
    Servo servo5;
13
14
    //servo
    int i = 0;
15
   //sound
16
    int soundSensor = A0 ;// // LM393 Sound Sensor Digital Pin D0 connected to pin 10
17
18
    //led
    int LedPins[] = {2, 3, 4, 5, 6, 7, 8, 9, 10};
19
    boolean LEDStatus=false;
20
21
22
    void setup() {
23
24 √//servo pin
      servo1.attach(A1);
25
26
      servo2.attach(A2);
27
28
      servo3.attach(A3);
29
30
      servo4.attach(A4);
31
```

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multiple servo.ino
  34
  33
         servo5.attach(A5);
       //sound
  34
       pinMode (soundSensor, INPUT);
  35
  36
       //led
       int index;
  37
  38
       for (index = 0; index <= 5; index++)</pre>
  39
         {
  40
           pinMode(LedPins[index], OUTPUT);
  41
       Serial.begin(9600); //initialize serial
  42
  43
  44
  45
  46
  47
       void loop() {
  48
       int SensorData=digitalRead(soundSensor);
  49
       Serial.println(SensorData);//print the value
  50
       //Sound triggered servo motoring.
  51
  52
       if (SensorData==1){
  53
         //Controls the servo angle.
         for (i = 0; i < 180; i++) {
  54
  55
  56
           servo1.write(i);
  57
  58
           servo2.write(i);
  59
           servo3.write(i);
  60
  61
           servo4.write(i);
  62
```

```
multiple servo.ino
  65
           delay(3);
  66
         }
  67
  68
         for (i = 180; i > 0; i--) {
  69
  70
  71
           servo1.write(i);
  72
  73
           servo2.write(i);
  74
           servo3.write(i);
  75
  76
           servo4.write(i);
  77
  78
           servo5.write (i);
  79
  80
           delay(3);
  81
  82
  83
  84
         else{
           servo1.write(0);
  85
  86
  87
           servo2.write(0);
  88
           servo3.write(0);
  89
  90
           servo4.write(0);
  91
  92
           servo5.write(0);
  93
  94
       if (SensorData==1) {
  95
```

```
multiple servo.ino
  92
           servo5.write(0);
  93
  94
  95
       if (SensorData==1) {
           if(LEDStatus==false){
  96
  97
               LEDStatus=true;
         digitalWrite(LedPins[1], HIGH); //Turns on LED #0 (pin 4)
  98
         digitalWrite(LedPins[2], HIGH); //Turns on LED #1 (pin 5)
  99
         digitalWrite(LedPins[3], HIGH); //Turns on LED #2 (pin 6)
 100
         digitalWrite(LedPins[4], HIGH); //Turns on LED #3 (pin 7)
 101
         digitalWrite(LedPins[5], HIGH); //Turns on LED #4 (pin 8)
 102
         digitalWrite(LedPins[6], HIGH); //Turns on LED #5 (pin 9)
 103
         digitalWrite(LedPins[7], HIGH); //Turns on LED #0 (pin 4)
 104
         digitalWrite(LedPins[8], HIGH); //Turns on LED #1 (pin 5)
 105
         digitalWrite(LedPins[9], HIGH); //Turns on LED #2 (pin 6)
 106
 107
 108
 109
           else if(LEDStatus==true){
               LEDStatus=false;
 110
         digitalWrite(LedPins[1], LOW);
                                          //Turn off LED #5 (pin 9)
 111
         digitalWrite(LedPins[2], LOW);
                                          //Turn off LED #4 (pin 8)
 112
         digitalWrite(LedPins[3], LOW);
                                          //Turn off LED #3 (pin 7)
 113
         digitalWrite(LedPins[4], LOW);
                                          //Turn off LED #2 (pin 6)
 114
                                          //Turn off LED #1 (pin 5)
         digitalWrite(LedPins[5], LOW);
 115
         digitalWrite(LedPins[6], LOW);
                                          //Turn off LED #0 (pin 4)
 116
         digitalWrite(LedPins[7], LOW);
                                          //Turn off LED #2 (pin 6)
 117
         digitalWrite(LedPins[8], LOW);
 118
                                          //Turn off LED #1 (pin 5)
         digitalWrite(LedPins[9], LOW);
                                          //Turn off LED #0 (pin 4)
 119
 120
           }}
 121
 122
```