```
#include <SoftwareSerial.h>
SoftwareSerial Bluetooth(10, 9); // Tx , Rx
#include <SimpleDHT.h>
SimpleDHT11 dht11;
#define LM1 4
#define LM2 5
#define RM16
#define RM2 7
int echoPin = 12;
int trigPin = 11;
int pinDHT11 = A0;
int LDR_PIN = A1;
int LED = 13;
char data;
long duration, distance;
byte temperature = 00;
byte humidity = 00;
int LDR_data;
void setup() {
 Bluetooth.begin(9600);
 Serial.begin(9600);
 pinMode(LM1, OUTPUT);
 pinMode(LM2, OUTPUT);
 pinMode(RM1, OUTPUT);
 pinMode(RM2, OUTPUT);
```

```
pinMode(trigPin, OUTPUT);
 pinMode(echoPin, INPUT);
 pinMode(pinDHT11, INPUT);
 pinMode(LDR_PIN, INPUT);
 pinMode(LED, OUTPUT);
}
void loop()
{
 digitalWrite(trigPin, LOW);
 delayMicroseconds(2);
 digitalWrite(trigPin, HIGH);
 delayMicroseconds(10);
 duration = pulseIn(echoPin, HIGH);
 distance = duration / 58.2;
 if (dht11.read(pinDHT11, &temperature, &humidity, NULL))
  {
   delay(100);
   return;
  }
 if (distance < 31)
  Bluetooth.print(temperature);
  Bluetooth.print("|");
  Bluetooth.print(humidity);
  Bluetooth.print("|");
  Bluetooth.print("Obstacle_Detected");
  digitalWrite(LM1, LOW);
  digitalWrite(LM2, LOW);
```

```
digitalWrite(RM1, LOW);
 digitalWrite(RM2, LOW);
}
else {
 Bluetooth.print(temperature);
 Bluetooth.print("|");
 Bluetooth.print(humidity);
 Bluetooth.print("|");
 Bluetooth.print("_");
}
/* ======== */
LDR_data = analogRead(LDR_PIN);
if (LDR_data < 120) {
 digitalWrite(LED, HIGH);
}
else {
 digitalWrite(LED, LOW);
}
if (Bluetooth.available() > 0)
 data = Bluetooth.read();
 if (data == '1')
 {
  digitalWrite(LM1, HIGH);
  digitalWrite(LM2, LOW);
  digitalWrite(RM1, HIGH);
  digitalWrite(RM2, LOW);
 }
```

```
else if (data == '2')
 {
  digitalWrite(LM1, LOW);
  digitalWrite(LM2, HIGH);
  digitalWrite(RM1, LOW);
  digitalWrite(RM2, HIGH);
 }
 else if (data == '3')
 {
  digitalWrite(LM1, LOW);
  digitalWrite(LM2, LOW);
  digitalWrite(RM1, HIGH);
  digitalWrite(RM2, LOW);
 }
 else if (data == '4')
 {
  digitalWrite(LM1, HIGH);
  digitalWrite(LM2, LOW);
  digitalWrite(RM1, LOW);
  digitalWrite(RM2, LOW);
 }
 else if (data == '5')
 {
  digitalWrite(LM1, LOW);
  digitalWrite(LM2, LOW);
  digitalWrite(RM1, LOW);
  digitalWrite(RM2, LOW);
 }
}
```

}