

```
1  // C++ code
2  //
3  int TRIG = 2;
4  int ECHO = 3;
5  int BUZZ = 8;
6  void setup()
7  {
8      pinMode(TRIG, OUTPUT);
9      pinMode(ECHO, INPUT);
10     pinMode(BUZZ, OUTPUT);
11     Serial.begin(9600);
12 }
13
14 void loop()
15 {
16     digitalWrite(TRIG, LOW);
17     delayMicroseconds(2);
18     digitalWrite(TRIG, HIGH);
19     delayMicroseconds(10);
20     digitalWrite(TRIG, LOW);
21     int distance = pulseIn(ECHO, HIGH);
22     int cm = 0.01723 * distance;
23     Serial.print("Distance in cm = ");
24     Serial.println(cm);
25     if(cm <= 335)
26     {
27         digitalWrite(BUZZ, HIGH);
28     }
29     else
30     {
31         digitalWrite(BUZZ, LOW);
32     }
33     delay(100);
34 }
35
```

pir buzzer

```
1  int BUZZ = 3;
2  int PIR = 2;
3  void setup()
4  {
5      pinMode(3, OUTPUT);
6      pinMode(2, INPUT);
7      Serial.begin(9600);
8  }
9
10 void loop()
11 {
12     int movement = digitalRead(PIR);
13     Serial.print("Obstracle = ");
14     Serial.println(movement);
15     if(movement == 1)
16     {
17         digitalWrite(BUZZ, HIGH);
18     }
19     else
20     {
21         digitalWrite(BUZZ, LOW);
22     }
23     delay(500);
24 }
25
```

```
1  int BUZZ = 3;
2  int PIR = 2;
3  void setup()
4  {
5      pinMode(3, OUTPUT);
6      pinMode(2, INPUT);
7      Serial.begin(9600);
8  }
9
10 void loop()
11 {
12     int movement = digitalRead(PIR);
13     Serial.print("Obstracle = ");
14     Serial.println(movement);
15     if(movement == 1)
16     {
17         digitalWrite(BUZZ, HIGH);
18     }
19     else
20     {
21         digitalWrite(BUZZ, LOW);
22     }
23     delay(500);
24 }
25
```

Text ▼



1 (Arduino)

PIR SENSOR

```
1 // C++ code
2 //
3 int LED=12;
4 int PIRPin=7;
5 int isObstacle=LOW;
6
7 void setup()
8 {
9     pinMode(LED,OUTPUT);
10    pinMode(PIRPin,INPUT);
11    Serial.begin(9600);
12 }
13
14 void loop()
15 {
16     isObstacle=digitalRead(PIRPin);
17     if (isObstacle==HIGH)
18     {
19         Serial.println("Obstacle detected");
20         digitalWrite(LED,HIGH);
21     }
22     else
23     {
24         Serial.println("Clear path no obstacle");
25         digitalWrite(LED, LOW);
26     }
27     delay(1000);
28 }
```

light fan

```
1 // C++ code
2 //
3 int LIGHT = 8;
4 int FAN = 9;
5 int PIR = 2;
6 int TMP = A0;
7 void setup()
8 {
9     pinMode(8, OUTPUT);
10    pinMode(9, OUTPUT);
11    pinMode(2, INPUT);
12    pinMode(A0, INPUT);
13    Serial.begin(9600);
14 }
15
16 void loop()
17 {
18     int movement = digitalRead(PIR);
19     int celsius = map((analogRead(A0) - 20) * 3.04), 0, 1023, -40, 100);
20     int fahrenheit = ((celsius * 9) / 5 + 32);
21     Serial.print(celsius);
22     Serial.print(' C. ');
23     Serial.print(fahrenheit);
24     Serial.print(' F. ');
25     Serial.print(movement);
26     Serial.println(" movement");
27     if(celsius >= 35)
28     {
29         digitalWrite(FAN, HIGH);
30     }
31     else
32     {
33         digitalWrite(FAN, LOW);
34     }
35     if(movement == 1)
36     {
37         digitalWrite(LIGHT, HIGH);
38     }
39     else
40     {
41         digitalWrite(LIGHT, LOW);
42     }
43     delay(1000);
44 }
```

```
// C++ code
//
int Ledpin1 = 13;
int Ledpin2 = 12;
int Ledpin3 = 11;

void setup()
{
    pinMode(Ledpin1, OUTPUT);
    pinMode(Ledpin2, OUTPUT);
    pinMode(Ledpin3, OUTPUT);
}

void loop()
{
    digitalWrite(Ledpin1, HIGH);
    delay(3000);
    digitalWrite(Ledpin2, LOW);
    delay(1000);
    digitalWrite(Ledpin3, LOW);
    delay(1000);
    digitalWrite(Ledpin1, LOW);
    delay(500);
    digitalWrite(Ledpin2, HIGH);
    delay(500);
    digitalWrite(Ledpin3, LOW);
    delay(500);
    digitalWrite(Ledpin1, LOW);
    delay(1000);
    digitalWrite(Ledpin2, LOW);
    delay(1000);
    digitalWrite(Ledpin3, HIGH);
    delay(5000);
    digitalWrite(Ledpin3, LOW);
    delay(1000);
}
```



```
1 // C++ code
2 //
3 int LDR_PIN = A0;
4 int LED_PIN = 12;
5 int LDR_Val = 0;
6
7 void setup()
8 {
9     pinMode(LDR_PIN, INPUT);
10    pinMode(LED_PIN, OUTPUT);
11    Serial.begin(9600);
12 }
13
14 void loop()
15 {
16     LDR_Val = analogRead(LDR_PIN);
17     Serial.print("LED Value = ");
18     Serial.println(LDR_Val);
19
20     if (LDR_Val > 50)
21         digitalWrite(LED_PIN, HIGH);
22     else
23         digitalWrite(LED_PIN, LOW);
24 }
25
```

ultrasonic buzzer

```
1 // C++ code
2 //
3 int TRIG = 2;
4 int ECHO = 3;
5 int BUZZ = 8;
6 void setup()
7 {
8     pinMode(TRIG, OUTPUT);
9     pinMode(ECHO, INPUT);
10    pinMode(BUZZ, OUTPUT);
11    Serial.begin(9600);
12 }
13
14 void loop()
15 {
16     digitalWrite(TRIG, LOW);
17     delayMicroseconds(2);
18     digitalWrite(TRIG, HIGH);
19     delayMicroseconds(10);
20     digitalWrite(TRIG, LOW);
21     int distance = pulseIn(ECHO, HIGH);
22     int cm = 0.01723 * distance;
23     Serial.print("Distance in cm = ");
24     Serial.println(cm);
25     if(cm <= 335)
26     {
27         digitalWrite(BUZZ, HIGH);
28     }
29     else
30     {
31         digitalWrite(BUZZ, LOW);
32     }
33     delay(100);
34 }
35
```



```

1 // C++ code
2 //
3 int LIGHT = 8;
4 int FAN = 9;
5 int PIR = 2;
6 int TMP = A0;
7 void setup()
8 {
9     pinMode(8, OUTPUT);
10    pinMode(9, OUTPUT);
11    pinMode(2, INPUT);
12    pinMode(A0, INPUT);
13    Serial.begin(9600);
14 }
15
16 void loop()
17 {
18     int movement = digitalRead(PIR);
19     int celsius = map((analogRead(A0) - 20) * 3.04), 0, 1023, -40, 100);
20     int fahrenheit = ((celsius * 9) / 5 + 32);
21     Serial.print(celsius);
22     Serial.print(" C. ");
23     Serial.print(fahrenheit);
24     Serial.print(" F. ");
25     Serial.print(movement);
26     Serial.println(" movement");
27     if(celsius >= 35)
28     {
29         digitalWrite(FAN, HIGH);
30     }
31     else
32     {
33         digitalWrite(FAN, LOW);
34     }
35     if(movement == 1)
36     {
37         digitalWrite(LIGHT, HIGH);
38     }
39     else
40     {
41         digitalWrite(LIGHT, LOW);
42     }
43     delay(1000);
44 }

```

Text



1 (Arduino Uno R3)

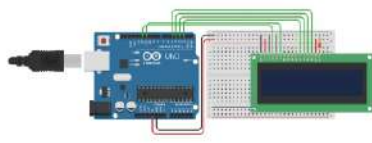
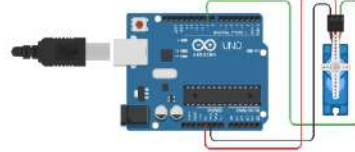
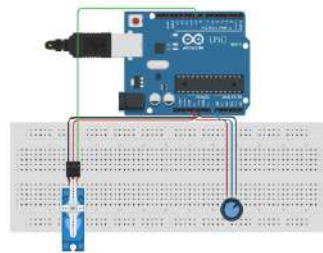
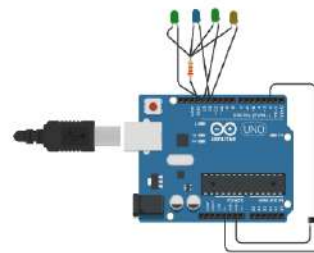
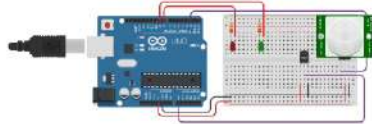
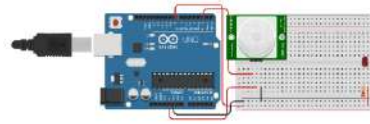
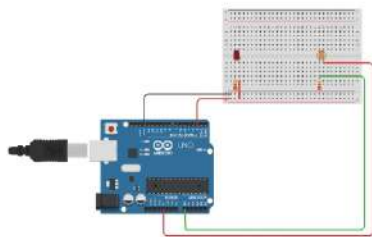
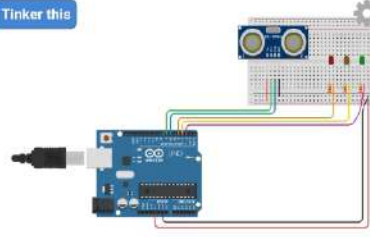
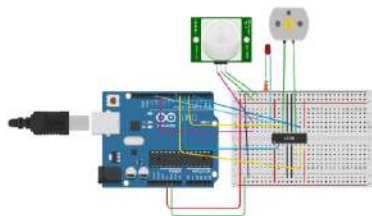
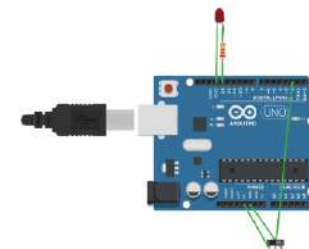
```
1 // C++ code
2 //
3 int threshold_value = 0;
4 int celsius = 0;
5 int fahrenheit = 0;
6 int R_LED = 4;
7
8
9 void setup()
10 {
11     pinMode(A0, INPUT);
12
13     Serial.begin(9600);
14
15
16     pinMode(R_LED, OUTPUT);
17 }
18
19
20 void loop()
21 {
22     threshold_value = 35;
23
24     celsius = map((analogRead(A0) - 20) * 3.04), 0, 1023, -40, 125);
25
26     fahrenheit = ((celsius * 9) / 5 + 32);
27
28     Serial.print(celsius);
29     Serial.print(" C, ");
30     Serial.print(fahrenheit);
31     Serial.println(" F");
32
33     if (celsius > threshold_value)
34     {
35         digitalWrite(4, HIGH);
36     }
37     else
38     {
39         digitalWrite(4, LOW);
40     }
41     delay(100);
42 }
43
```

Text ▼



1 (Arduino

```
1  // C++ code
2  //
3  int LED=12;
4  int PIRPin=7;
5  int isObstacle=LOW;
6
7  void setup()
8  {
9      pinMode(LED,OUTPUT);
10     pinMode(PIRPin,INPUT);
11     Serial.begin(9600);
12 }
13
14 void loop()
15 {
16     isObstacle=digitalRead(PIRPin);
17     if (isObstacle==HIGH)
18     {
19         Serial.println("Obstacle detected");
20         digitalWrite(LED,HIGH);
21     }
22     else
23     {
24         Serial.println("Clear path no obstacle");
25         digitalWrite(LED, LOW);
26     }
27     delay(1000);
28 }
```

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