TEAM ID:NM2023TMID10960

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Wokwilink : https://wokwi.com/projects/363057376227725313

CODE:

```
Int baselineTemp = 0;

Int celsius = 0;

Int fahrenheit = 0;


Void setup()

{

  pinMode(A0, INPUT);

  Serial.begin(9600);

  pinMode(3, OUTPUT);

  pinMode(4, OUTPUT);

  pinMode(5, OUTPUT);

  pinMode(6,OUTPUT);

}


Void loop()

{

  Serial.print(celsius);

  Serial.print(" C, ");

  Serial.print(fahrenheit);

  Serial.println(" F");

  If (celsius < baselineTemp)

{

    digitalWrite(4, LOW);

    digitalWrite(5, LOW);

    digitalWrite(6, LOW);
```

```
  }
  If (celsius >= baselineTemp && celsius < baselineTemp + 10)
{
   digitalWrite(4, HIGH);
   digitalWrite(5, LOW);
   digitalWrite(6, LOW);
  }
  If (celsius >= baselineTemp + 10 && celsius < baselineTemp + 20)
{
   digitalWrite(4, HIGH);
   digitalWrite(5, HIGH);
   digitalWrite(6, LOW);
  }
  If (celsius >= baselineTemp + 20 && celsius < baselineTemp + 30)
{
   digitalWrite(4, HIGH);
   digitalWrite(5, HIGH);
   digitalWrite(6, HIGH);
  }
  If (celsius >= baselineTemp + 30)
{
   digitalWrite(3, HIGH);
   digitalWrite(4, HIGH);
   digitalWrite(5, HIGH);
   digitalWrite(6,HIGH);
  }
  Delay(1000);
}
SCHEMATIC :
```
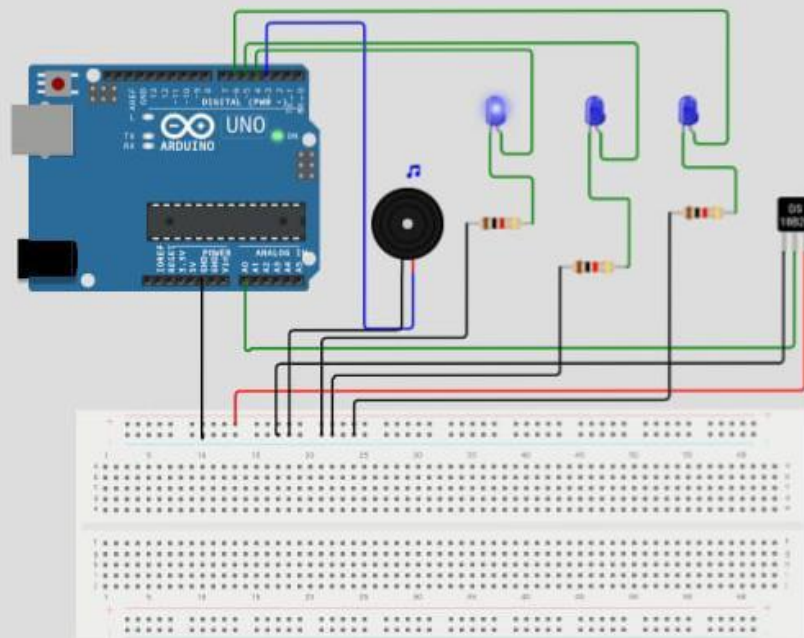
00:00.400   49%

0 C, 0 F

sketch.ino   diagram.json   Library Manager   ▾

```arduino
1   int baselineTemp = 0;
2   int celsius = 0;
3   int fahrenheit = 0;
4
5   void setup()
6   {
7     pinMode(A0, INPUT);
8     Serial.begin(9600);
9     pinMode(3, OUTPUT);
10    pinMode(4, OUTPUT);
11    pinMode(5, OUTPUT);
12    pinMode(6,OUTPUT);
13  }
14
15  void loop()
16  {
17    Serial.print(celsius);
18    Serial.print(" C, ");
19    Serial.print(fahrenheit);
20    Serial.println(" F");
21    if (celsius < baselineTemp)
22    {
23      digitalWrite(4, LOW);
24      digitalWrite(5, LOW);
25      digitalWrite(6, LOW);
26    }
27    if (celsius >= baselineTemp && cels
28    {
29      digitalWrite(4, HIGH);
30      digitalWrite(5, LOW);
31      digitalWrite(6, LOW);
32    }
33    if (celsius >= baselineTemp + 10 &&
34    {
35      digitalWrite(4, HIGH);
```

```
29        digitalWrite(4, HIGH);
30        digitalWrite(5, LOW);
31        digitalWrite(6, LOW);
32      }
33      if (celsius >= baselineTemp + 10 &&
34      {
35          digitalWrite(4, HIGH);
36          digitalWrite(5, HIGH);
37          digitalWrite(6, LOW);
38      }
39      if (celsius >= baselineTemp + 20 &&
40      {
41          digitalWrite(4, HIGH);
42          digitalWrite(5, HIGH);
43          digitalWrite(6, HIGH);
44      }
45      if (celsius >= baselineTemp + 30)
46      {
47          digitalWrite(3, HIGH);
48          digitalWrite(4, HIGH);
49          digitalWrite(5, HIGH);
50          digitalWrite(6,HIGH);
51      }
52      delay(1000);
53  }
54
```