Assignment -1 Tinker Cad Circuit

Assignment Date	12 September 2022
Student Name	Ms. Gowshalya S
Student Roll Number	611219106301
Maximum Marks	2 Marks

Make a Smart Home in Tinker cad, using 2+ sensors, Led, Buzzer in single code and circuit.

Solution:

```
int baselineTemp = 0;
int celsius = 0;
int fahrenheit = 0;
void setup()
 pinMode(A0, INPUT);
 Serial.begin(9600);
 pinMode(2, OUTPUT);
 pinMode(3, OUTPUT);
 pinMode(4, OUTPUT);
void loop()
 baselineTemp = 40;
 celsius = map(((analogRead(A0) - 20) * 3.04), 0, 1023, -40, 125);
 fahrenheit = ((celsius * 9) / 5 + 32);
 Serial.print(celsius);
 Serial.print(" C, ");
 Serial.print(fahrenheit);
 Serial.println(" F");
 if (celsius < baselineTemp) {</pre>
  digitalWrite(2, LOW);
  digitalWrite(3, LOW);
  digitalWrite(4, LOW);
 if (celsius >= baselineTemp && celsius < baselineTemp + 10) {
  digitalWrite(2, HIGH);
  digitalWrite(3, LOW);
  digitalWrite(4, LOW);
 }
 if (celsius >= baselineTemp + 10 && celsius < baselineTemp + 20) {
  digitalWrite(2, HIGH);
  digitalWrite(3, HIGH);
  digitalWrite(4, LOW);
 }
```

```
if (celsius >= baselineTemp + 20 && celsius < baselineTemp + 30) {
    digitalWrite(2, HIGH);
    digitalWrite(3, HIGH);
    digitalWrite(4, HIGH);
}
if (celsius >= baselineTemp + 30) {
    digitalWrite(2, HIGH);
    digitalWrite(3, HIGH);
    digitalWrite(4, HIGH);
}
delay(1000);
}
```

Output

