SMART HOME AUTOMATION USING SENSORS

Screenshot 1 — Tinkercad code editor:

```
17    Serial.println(y);
18    Serial.println(z);
19    temp = (double)z / 1024;
20    temp = temp * 5;
21    temp = temp - 0.5;
22    temp = temp * 100;
23    if ( (x>0) )
24    {
25
26 if ( (y<550)&&(temp>30))
27    {
28        digitalWrite(5, HIGH);
29        digitalWrite(6, HIGH);
30    }
31    else if((y<550)&&(temp<30))
32    {
33        digitalWrite(5, HIGH);
34        digitalWrite(6, LOW);
35    }
36    else if((y>550)&&(temp>30))
37    {
38        digitalWrite(5, LOW);
39        digitalWrite(6, HIGH);
40    }
41    else if((y>550)&&(temp<30))
42    {
43        digitalWrite(5, LOW);
44        digitalWrite(6, LOW);
45    }
46    }
47    else
48    {
49 digitalWrite(5, LOW);
50        digitalWrite(6, LOW);
51    }
52 }
```


Screenshot 2 — Tinkercad circuit simulation:

Simulator time: 00:00:02.133

5.00 V
0.00 A

Components — Basic

Resistor | LED | Pushbutton
Potentiometer | Capacitor | Slideswitch
9V Battery | Coin Cell 3V Battery | 1.5V Battery
Breadboard Small | micro:bit | Arduino Uno R3