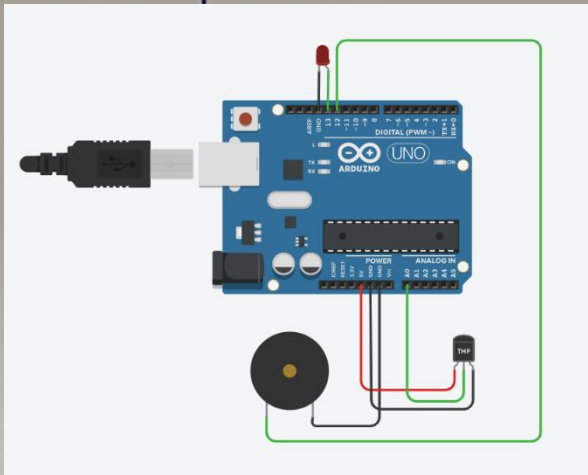PROGRAM- 9

Title : Temperature flame Sensor
Aim : To alarm when the temperature raises above
         37°.
Hardware Required : Arduino Board , LED , Temperature
                    Sensor , Piezo , Wires.

   Circuit Diagram :

Code :
int temppin = A0;
float temp = 0 ;
int Buzzer = 12;
void setup ()
{
    Serial. begin (9600);
    pinMode (Buzzer , OUTPUT)
    pinMode (13, OUTPUT)

}

```
void loop()
{
    temp = analogRead(temppin);
    temp = temp * 0.448828125;
    Serial.println(temp);
    delay(1000);
    if(temp > 37)
    {
        digitalWrite(Buzzer, HIGH);
        digitalWrite(13, HIGH);
        delay(300);
    }
    else
    {
        digitalWrite(Buzzer, LOW);
        digitalWrite(13, LOW);
    }
}
```

Observation/Conclusion:

We can see that the alarm starts and the LED light switches on as soon as the temperature increases above 37°.