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PROGRAM 8 : FIRE ALERT SYSTEM

Aim :- Design an alert system using flame sensor

Hardware Required :- Arduino UNO, Temperature Sensor, LED

Code :-

```
int temperaturePin = 0;
int buzzer = 12;
void setup()
{
  Serial.begin(9600);
  pinMode(buzzer, OUTPUT);
  pinMode(9, OUTPUT); }

float getVoltage(int pin)
{
  return (analogRead(pin) + 0.004882814); }

void loop() {
   float voltage, degreeC;
   voltage = getVoltage(temperaturePin);
   degreeC = (voltage - 0.5) * 100.0;
   digitalWrite(9, LOW);
   if(degreeC > 37)
  { Serial.println(degreeC);
   Serial.println("ALERT!");
   digitalWrite(buzzer, LOW);
   digitalWrite(9, HIGH);
   tone(12, 10000, 100);
   delay(200); }

   else {
```

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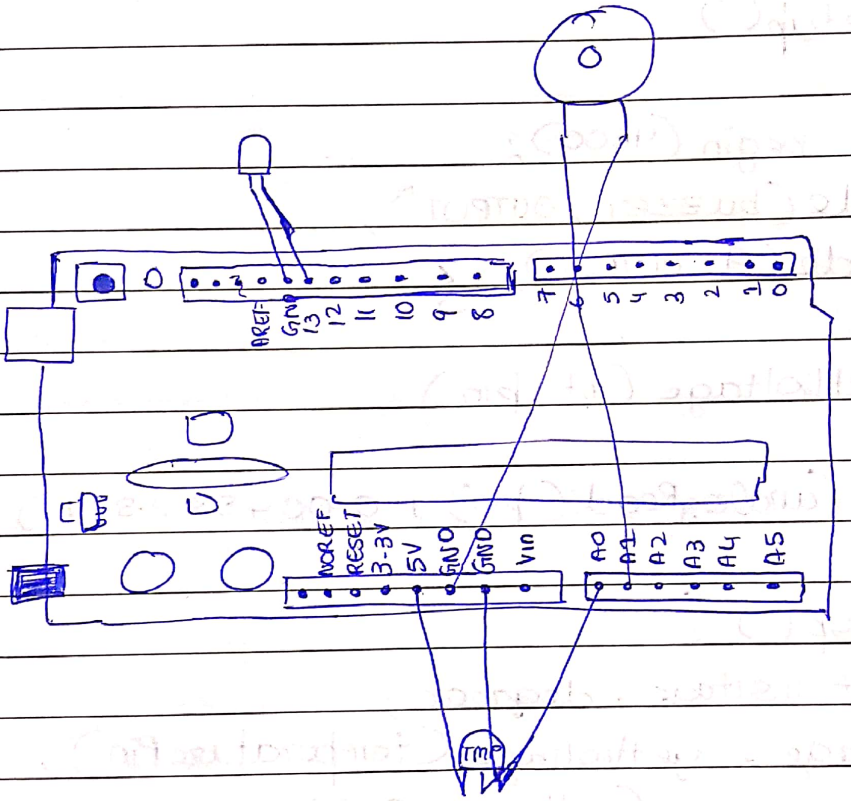
```
Serial.print("degree");
Serial.print("SAVE!!");
delay(200);}
}
```

Diagram :



Output : Created a system to alert a user of fire with the help of buzzer & LED