

# IOT LAB - 5th Sem

Name : Varad Vithal KJ , USN : 1BM18CS122

Program No : 09

Program Title : Fire Detection

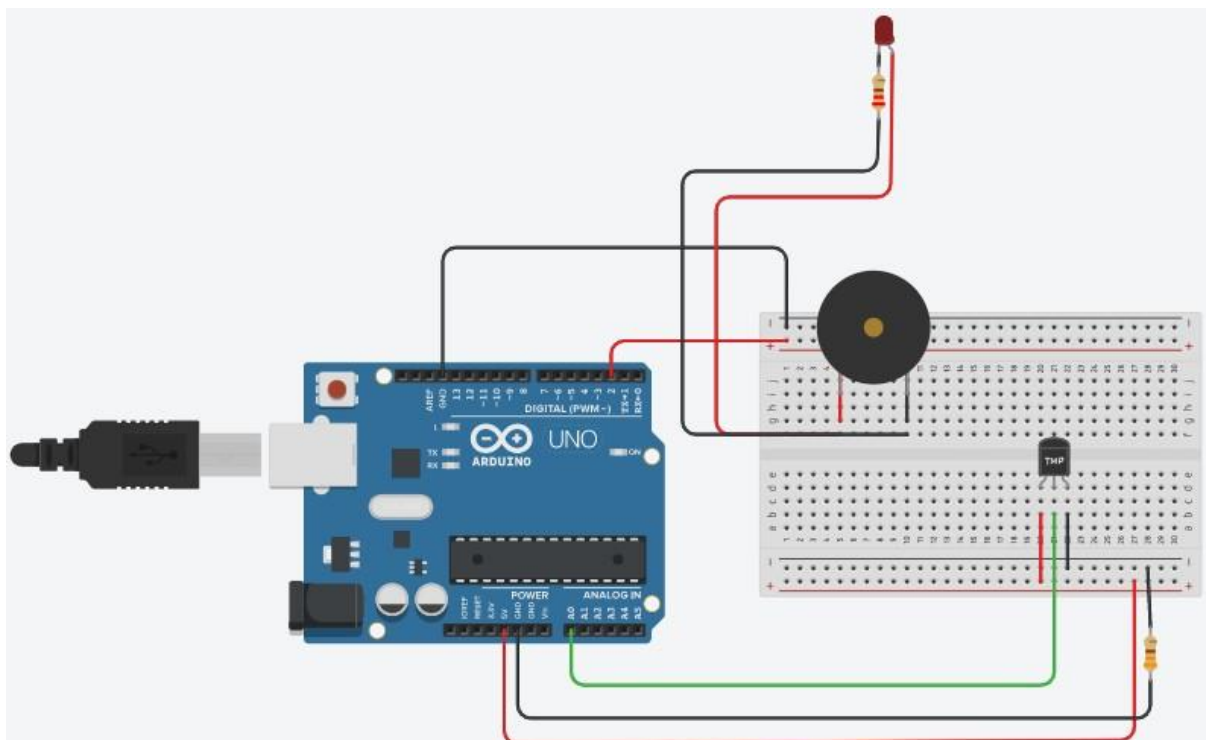
Aim :

To turn on a LED and buzzer upon detecting a fire (aka high temp) using an Arduino Uno board.

Hardware Required :

- Arduino Uno Board
- LED
- Buzzer
- Temperature Sensor
- 330 Ohm Resistor
- 220 Ohm Resistor

Circuit Diagram :



```

void setup()
{
  Serial.begin(9600);
  pinMode(2, OUTPUT);
}

void loop()
{
  int temp = analogRead(A0);
  float x = map(x, 31, 368, -40, 125);

  if (x > 70)
  {
    Serial.println("Buzzz");
    digitalWrite(2, HIGH);
    delay(2000);
    digitalWrite(2, LOW);
  }
  else
  {
    Serial.println("Idle");
  }
}

```

### Observation /Output :

The LED and Buzzer are turned on when a fire is detected.