Shaan Subbaiah B C - 1BM18CS096

Program no – 09

Program Title – Fire Detection

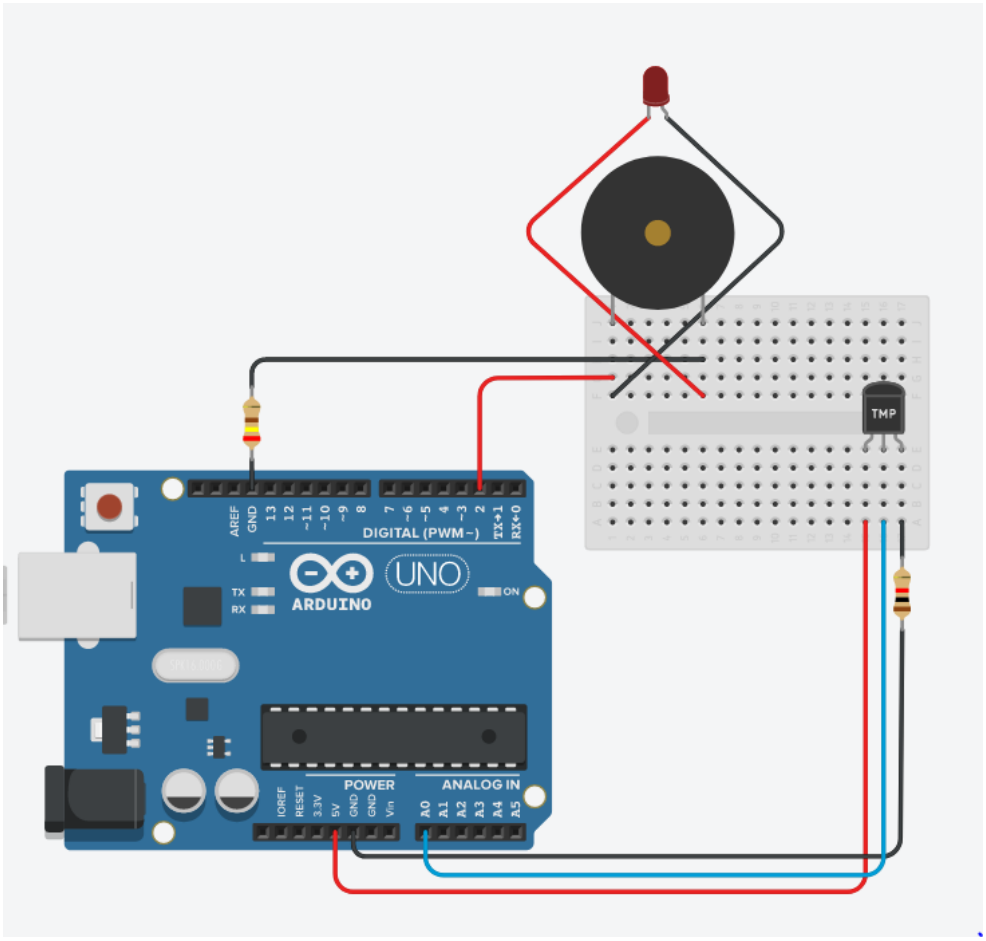
Aim

To turn on the LED and Buzzer upon detecting a fire.

Hardware Required

- Arduino Board
- Buzzer
- LED
- Temperature Sensor
- 2x 240 Ohm Resistor

Circuit Diagram



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

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

    if(c > 70){
        Serial.println("buzzing!");
        digitalWrite(2, HIGH);
        delay(2000);
        digitalWrite(2, LOW);
    }else{
        Serial.println("Idle");
    }
}
```

Code:

```
// Shaan Subbaiah B C - 1BM18CS096
// FIRE Sensor
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{
  Serial.begin(9600);
  pinMode(2, OUTPUT);
}

void loop()
{
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 if(c > 70){
            Serial.println("Buzzing!");
            digitalWrite(2, HIGH);
    delay(2000);
    digitalWrite(2, LOW);
 }else{
            Serial.println("Idle");
  }
}
```

Observation /Output

LED and buzzer is turned on when a fire is detected.