IOT LAB - 5th Sem

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Program Title : Fire Detection

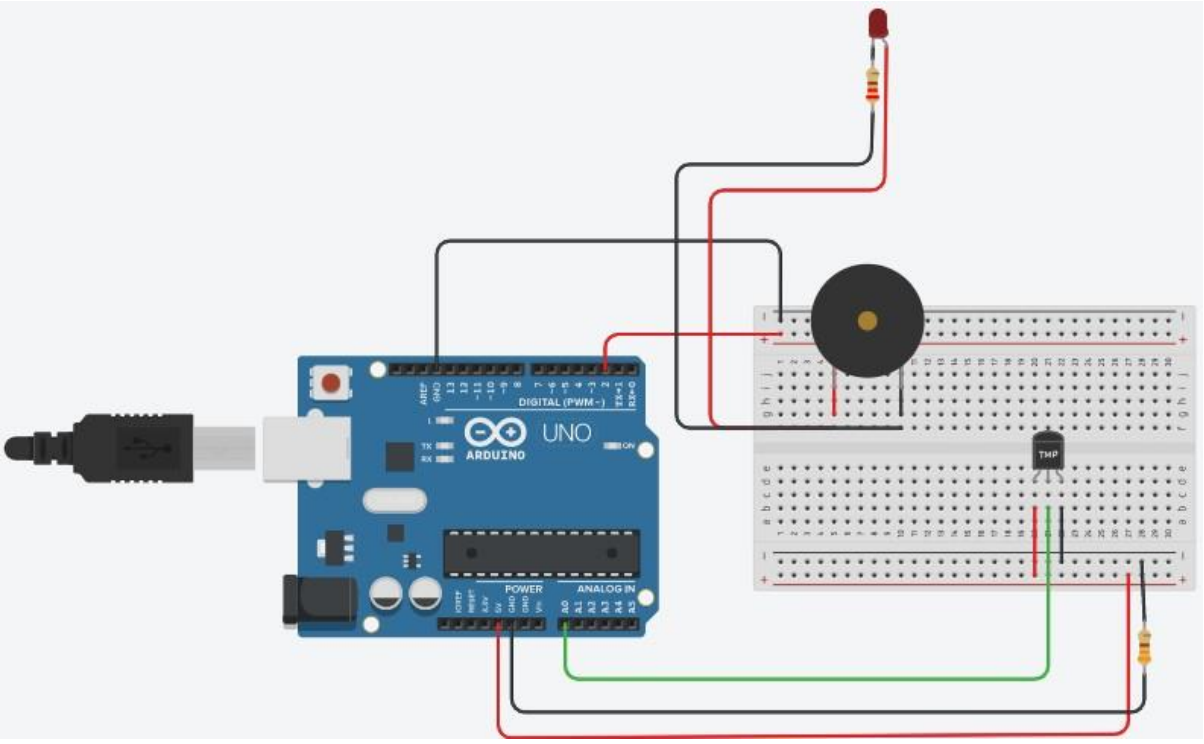
Aim :

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 :



Written Code :

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8) Temperature Sensor

```
int tmpSensor=A0;
int outputpin = 0;
float tmp;
Void Setup ()
{
  Serial.begin(9600);
}
Void loop ()
{
  int rawvoltage =analog Read (outputpin
  float millivolts =(rawvoltage/1024.0)*500
  float celsius= millivolts/10;
  Serial.print(celsius);
  Serial.print("Degrees in Celcius,");
  Serial.print((celsius*9)/5+32);
  Serial.println("Degrees Fahrenheit");
  delay(1000);
}
```

Observation /Output :

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