# Name J S MEGHANA

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# Program no Week-4 2<sup>nd</sup> -Question

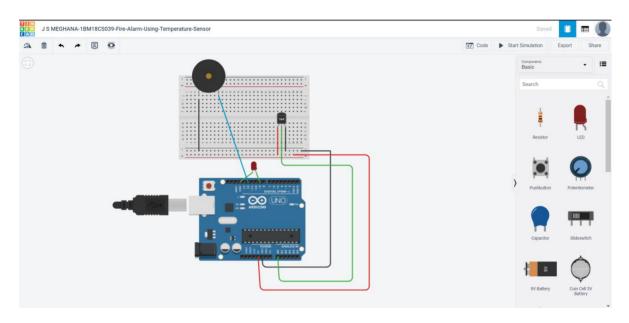
# Program Title Fire-Alarm-Using-Temperature-Sensor

**Aim:** Design an alert system using flame sensor(use temp sensor for experiment in tinkercad)

#### **Hardware Required**

- 1. Arduino Uno Board
- 2. LED
- 3. Piezo
- 4. Temperature Sensor

#### **Circuit Diagram**



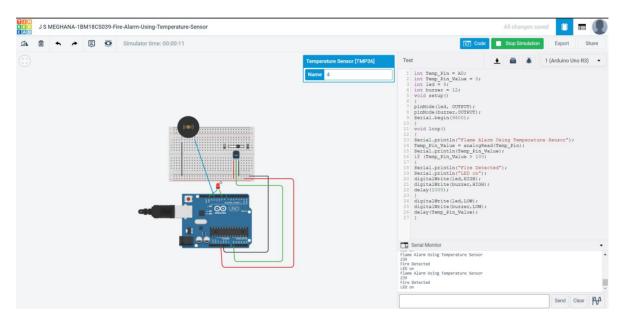
#### Code:

```
int Temp_Pin = A0;
int Temp_Pin_Value = 0;
int led = 9;
int buzzer = 12;
void setup()
{
    pinMode(led, OUTPUT);
    pinMode(buzzer,OUTPUT);
    Serial.begin(9600);
}
void loop()
{
    Serial.println("Flame Alarm Using Temperature Sensor");
    Temp_Pin_Value = analogRead(Temp_Pin);
    Serial.println(Temp_Pin_Value);
    if (Temp_Pin_Value > 100)
    {
        Serial.println("Fire Detected");
    }
}
```

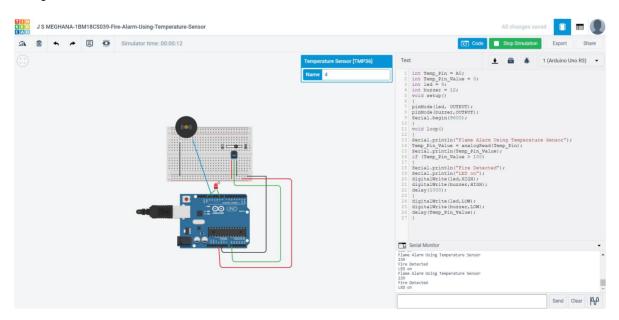
```
Serial.println("LED on");
digitalWrite(led,HIGH);
digitalWrite(buzzer,HIGH);
delay(1000);
}
digitalWrite(led,LOW);
digitalWrite(buzzer,LOW);
delay(Temp_Pin_Value);
}
```

## **Observation / Output**

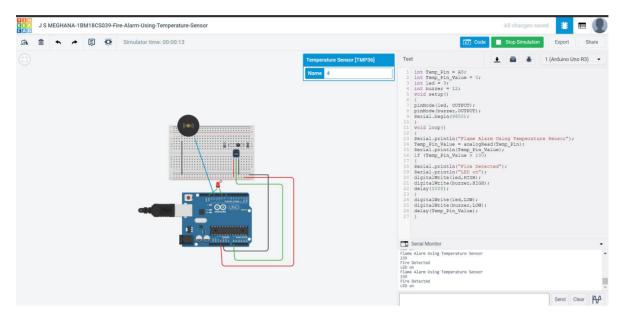
#### **Output-1**



## **Output-2**



### **Output-3**



#### **Output-4**

