

## Alert System

Aim: Design an alert system using flame sensor (also temp sensor for ex. in finger card)

Hardware requirement: Arduino, Piezo, 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 (degree < 37)
```

```
{
```

```
  Serial.print(degree);
```

```
  Serial.println("Alert");
```

```
  digitalWrite(buzzer, LOW);
```

```
  digitalWrite(9, HIGH);
```

```
  tone(12, 10000, 100);
```

```
  delay(100);
```

```
}
```

```
}
```