## Name - Parag Gattani

Program No. – 06

Program Title - Fire Alarm using flame Sensor

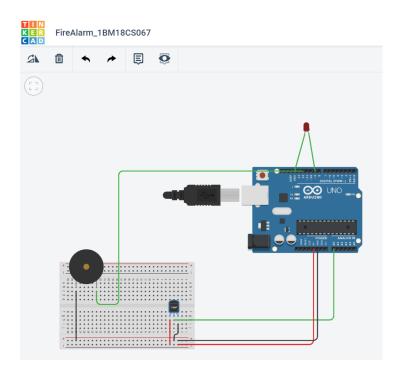
#### **AIM**

Design an alert system using flame sensor.

#### **HARDWARES REQUIRED**

- Arduino Board
- Piezo
- Temperature Sensor
- Breadboard small

#### **CIRCUIT DIAGRAM**



## **WRITE-UP**

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	07/10/2020
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	Code
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	void stupe
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	digetal Wrote (buryour, LOW);
-	tone (12, 10000, 100);

```
float get Voltage (sent pen)

getween (analog Read Cpen) * 0.004882814);

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```

### CODE

```
const int temperaturePin = 0;
int buzzer = 12;

void setup()
{
    Serial.begin (9600);
    pinMode(buzzer, OUTPUT);
    pinMode(9, OUTPUT);
}

void loop()
{
```

```
float voltage, degreesC;
voltage = getVoltage(temperaturePin);
 degreesC = (voltage-0.5)*100.0;
if(degreesC < 37)
{
  Serial.print(degreesC);
     Serial.println(" SAFE!");
}
if(degreesC > 37)
{
  Serial.print(degreesC);
  Serial.println("FIRE !!!");
  digitalWrite(9, HIGH);
  digitalWrite(buzzer, LOW);
  tone(12, 10000,100);
  delay(100);
 }
}
```

```
float getVoltage(int pin)
{
  return (analogRead(pin) * 0.004882814);
}
```

# OUTPUT

Designed an alert system using flame sensor.