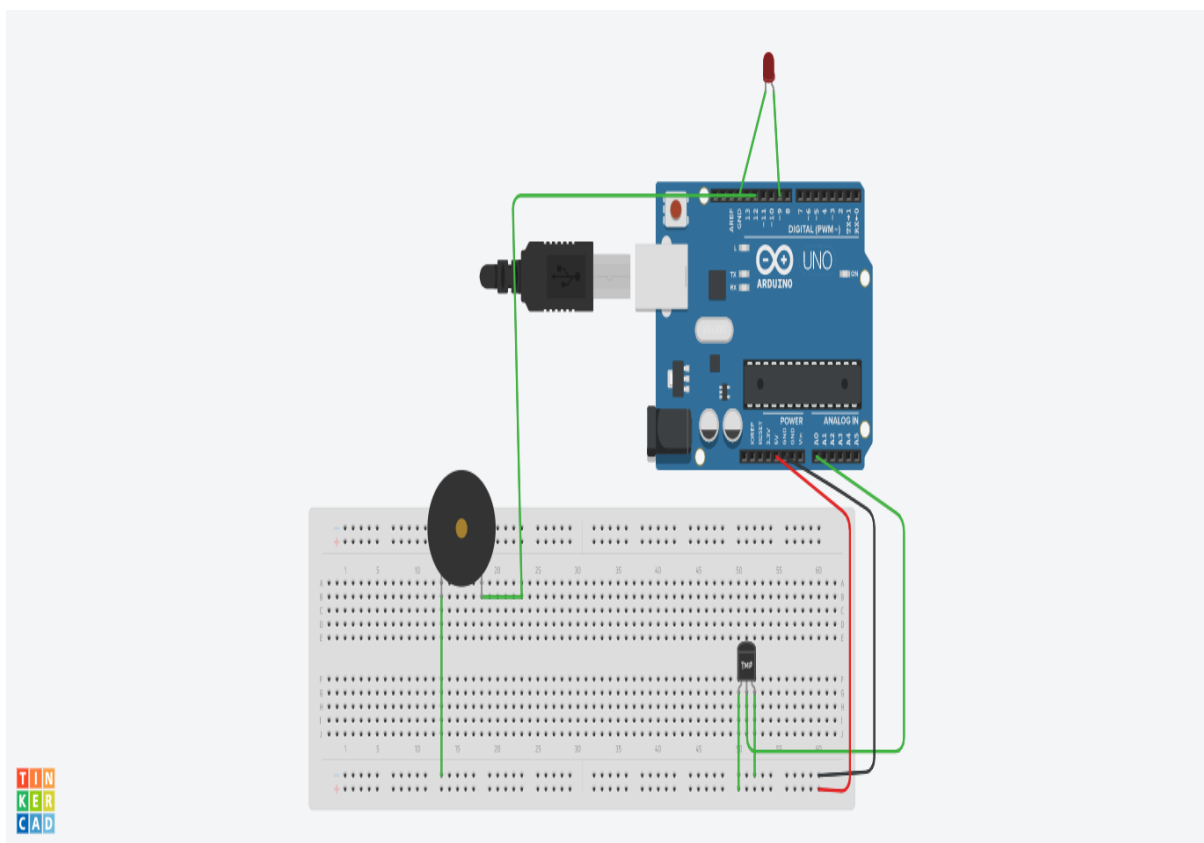# Program no____7____

Program Title_____FLAME SENSOR_____

Aim : Buzzer gets ON when the temperature is High.
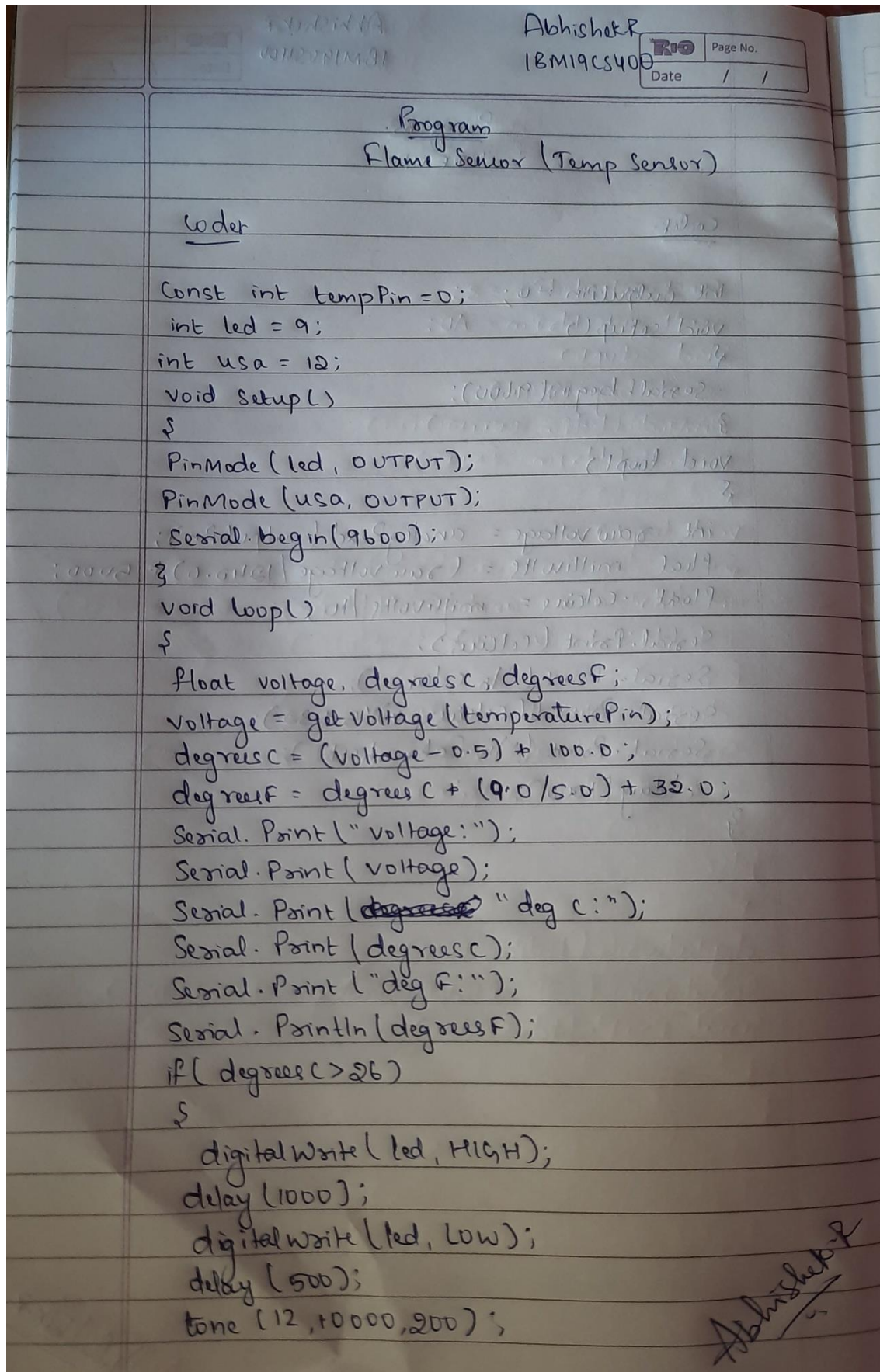
Hardware Required

- Arduino Board
  LED
  PIR sensor
  Resistor

Circuit Diagram

Code:

Program
Flame Sensor (Temp Sensor)

Coder

```
Const int tempPin = 0;
int led = 9;
int usa = 12;
void setup()
{
PinMode (led, OUTPUT);
PinMode (usa, OUTPUT);
Serial.begin(9600);
}
void loop()
{
float voltage, degreesc, degreesF;
voltage = getVoltage (temperaturePin);
degreesc = (voltage - 0.5) * 100.0;
degreesF = degrees C + (9.0/5.0) + 32.0;
Serial.Print ("voltage:");
Serial.Print (voltage);
Serial.Print ( "deg c:");
Serial.Print (degreesc);
Serial.Print ("deg F:");
Serial.Println (degreesF);
if (degrees C > 26)
{
digitalWrite (led, HIGH);
delay (1000);
digitalWrite (led, Low);
delay (500);
tone (12, 10000, 200);
```

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1BM19CS400

```
    }

}

float getvoltage (int Pin)
{
    return (analogRead (Pin) * 0.0048828114);
}
```

Observation /Output

Flame Sensor - 1BM19CS400

Simulator time: 00:00:07.720