SMART HOME (SAFETY SYSTEM AND FIRE SENSOR)

SOURCE CODE:

```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
// Set the LCD address to 0x27 for a 16 chars and 2 line display
LiquidCrystal_I2C lcd(0x27, 16, 2);
int flameSensorPin = 0; // input pin for flame sensor
int fR; // reading of the flame sensor
int buzzerPin=8; // pin assigned to buzzer
int tt=1023;
void setup(void)
 Serial.begin(9600); // starting the serial monitor
 pinMode(buzzerPin,OUTPUT); // output for the buzzer
 pinMode(7, OUTPUT); // output for the DC relay
}
void loop(void)
 fR = analogRead(flameSensorPin); // reads the flamesensor pin
if(fR<1023) //if loop for flame detected
      {
      digitalWrite(7, HIGH); //DC relay turned on
      digitalWrite(buzzerPin,HIGH); //buzzer turned on
      delay(1000);
      digitalWrite(7, LOW); //DC relay turned on
```

```
// initialize the LCD
 lcd.begin();
// Turn on the blacklight and print a message.
 lcd.backlight();
 lcd.print("LCD is Working");
              }
else
                   // incase no fire detected
     {
      digitalWrite(buzzerPin,LOW);
      digitalWrite(7, LOW);
      delay(1000);
             }
Serial.print("Analog reading = ");
Serial.println(fR); // the raw analog reading delay(1000);
delay(500);
}
```

OUTPUT:

