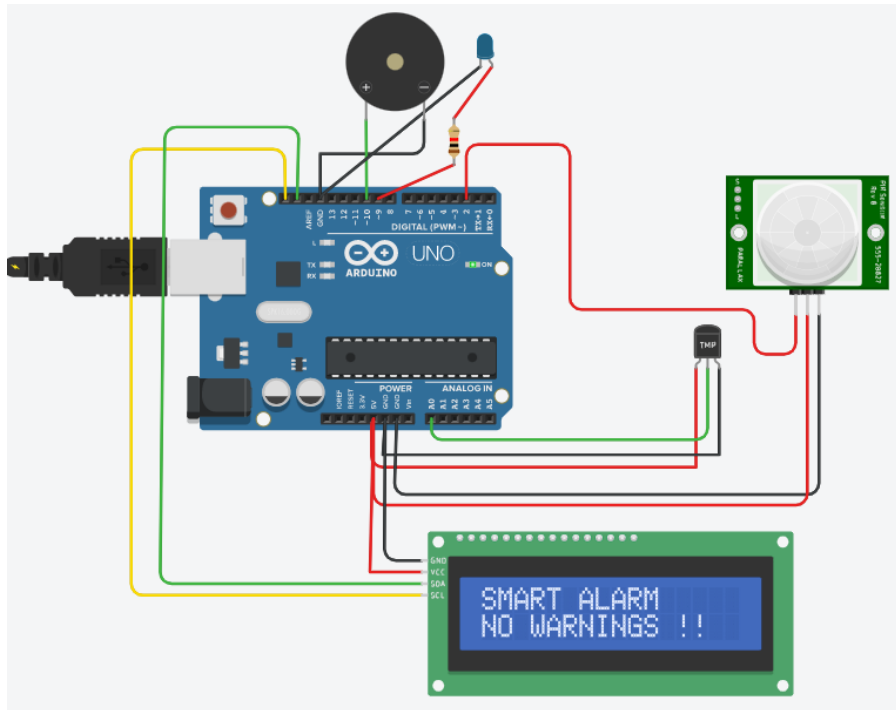


ASSIGNMENT 1



```
#include <Adafruit_LiquidCrystal.h>

Adafruit_LiquidCrystal lcd_1(0);

void setup()
{
  Serial.begin(9600);
  pinMode(10,OUTPUT);
  pinMode(9,OUTPUT);
  lcd_1.begin(16, 2);
  lcd_1.print("SMART ALARM");
}

void loop()
{
  lcd_1.setCursor(0, 1);
  double a=analogRead(A0);
  double t=((a/1024)*5)-0.5)*100;
  int b=digitalRead(2);
```

```
if(t>100&&b==1){  
    tone(10,t);  
    digitalWrite(9,HIGH);  
    lcd_1.print("Fire & Motion Detected!  ");  
}  
else if(t>100){  
    tone(10,t);  
    lcd_1.print("Fire Alarm!!!  ");  
}  
else if(b==1){  
    digitalWrite(9,HIGH);  
    lcd_1.print("Motion detected!!");  
}  
else  
    noTone(10);  
    digitalWrite(9,LOW);  
    lcd_1.print("NO WARNINGS !!  ");  
}
```