

PROJECT DEVELOPMENT DELIVERY OF

SPRINT-1

```
#include<LiquidCrystal.h>
LiquidCrystal lcd(5,6,8,9,10,11)
;

int redLed = 2;
int greenLed = 3;
int buzzer = 4;
int sensor = A0;
int sensorThresh = 400;

void setup()
{
```

```
pinMode(red1ed, OUTPUT);  
pinMode(green1ed,OUTPUT)  
;pinMode(buzzer,OUTPUT);  
pinMode(sensor,INPUT);  
serial.begin(9600);  
lcd.begin(16,2);  
}
```

```
Void loop()
```

```
{
```

```
    int analogValue =analogRead(sensor);  
    Serial.print(analogvalue);  
    if(analogValue>sensorThresh)
```

```
    {
```

```
        digitalWrite(red1ed,HIGH);
```

```
    digitalWrite(greenLed,LOW);  
    tone(buzzer,1000,10000);  
    lcd.clear();  
    lcd.setCursor(0,1);  
    lcd.print("RAILWAYS"); delay(1000);  
  
    lcd.clear();  
    lcd.setCursor(0,1);  
    lcd.print("SMART SOLUTION");  
    delay(1000);  
}
```

else

```
{
```

```
    digitalWrite(greenLed,HIGH);  
    digitalWrite(redLed,LOW);  
    noTone(buzzer);  
    lcd.clear();
```

```
    lcd.setCursor(0,0);  
    lcd.print("SAFE");  
    delay(1000);  
    lcd.clear();  
    lcd.setCursor(0,1);  
    lcd.print("ALL CLEAR"); delay(1000);  
}  
}
```