

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

TEAM ID	PNT2022TMID28657
PROJECT NAME	SMART SOLUTION FOR RAILWAYS

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(redLed, OUTPUT);
```

```
pinMode(greenLed, OUTPUT);
```

```
pinMode(buzzer,OUTPUT);  
pinMode(sensor,INPUT); serial.begin(9600);  
1cd.begin(16,2);  
}
```

```
Void loop()  
{  
    int analogValue = analogRead(sensor);  
    Serial.print(analogvalue);  
    if(analogValue>sensorThresh)  
    {  
        digitalWrite(red1ed,HIGH);  
        digit1Weite(green1ed,LOW);  
        tone(buzzer,1000,10000);  
        1cd.clear();  
        1cd.setCursor(0,1);  
        1cd.print("RAILWAYS");    delay(1000);  
        1cd.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);
}
}
```