

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

TEAM ID	PNT2022TMID03560
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);  
lcd.begin(16,2);  
}
```

```
Void loop()
```

```
{  
  
    int analogValue =  
        analogRead(sensor);  
    Serial.print(analogvalue);  
    if(analogValue>sensorThresh)  
    {  
  
        digitalWrite(redLed,HIGH);
```

```
    digitalWrite(green1ed,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(greenlad,HIGH);
    digitalWrite(red1ed,LOW);
    noTone(buzzer);
    lcd.clear();
    lcd.setCursor(0,0);
```

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