

SPRINT 1

<i>DATE</i>	18-11-2022
<i>TEAM ID</i>	PNT2022TMID50058
<i>PROJECT NAME</i>	SMART SOLUTION FOR RAILWAYS

SPRINT-1

```
#include<LiquidCrystal.h>
```

```
LiquidCrystal
```

```
1cd(5,6,8,9,10,11); int red1ed
```

```
= 2; int green1ed = 3; int
```

```
buzzer = 4; int sensor = A0;
```

```
int sensorThresh = 400;
```

```
void setup()
```

```
{
```

```
pinMode(red1ed,
```

```
OUTPUT);
```

```
pinMode(green1ed,OUTP
```

```
UT);
```

```
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(greenLED,LOW);
        tone(buzzer,1000,10000);
        lcd.clear();
```

```
1cd.setCursor(0,  
1cd.print("RAILWAYS"); delay(1000);  
1cd.clear();  
1cd.setCursor(0,1);  
1cd.print("SMART SOLUTION");  
delay(1000);  
}
```

else

```
{  
  
digitalWrite(greenlad,HIGH)  
; digitalWrite(red1ed,LOW);  
noTone(buzzer);  
1cd.clear();  
1cd.setCursor(0,0);  
1cd.print("SAFE");  
delay(1000);  
1cd.clear();
```

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