

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

TEAM ID	PNT2022TMID28640
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(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);
```

```
digit1Write(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(greenled,HIGH);  
digitalWrite(redled,LOW);  
noTone(buzzer);  
lcd.clear();
```

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