

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

TEAM ID	PNT2022TMID18960
PROJECT NAME	SMART SOLUTION FOR RAILWAYS

SPRINT-1

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

```
lcd(5,6,8,9,10,11);
```

```
int redPin = 2; int
```

```
greenPin = 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(greenLed, LOW);
        tone(buzzer, 1000, 10000);
        lcd.clear(); lcd.setCursor(0, 1);
    }
}
```

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

1cd.print("SMART SOLUTION");
delay(1000);
}

else
{

    digitalWrite(greenled,HIGH);
    digitalWrite(redled,LOW);
    noTone(buzzer);
    1cd.clear();
    1cd.setCursor(0,0);
    1cd.print("SAFE");
    delay(1000); 1cd.clear();
    1cd.setCursor(0,1);
    1cd.print("ALL CLEAR");
```

```
        delay(1000);  
    }  
}
```