

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

TEAM ID	PNT2022TMID52242
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(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);  
    }  
}
```