

# PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

<b>TEAM ID</b>	<b>PNT2022TMID40029</b>
<b>PROJECT-NAME</b>	<b>SMART SOLUTIONS FOR RAILWAYS</b>

## 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);  
    }
```

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

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