

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

TEAM ID	PNT2022TMID40694
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);
    digitalWrite(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(green1ed,HIGH);
    digitalWrite(red1ed,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);  
}  
}
```