

TEAM ID	PNT2022TMID53640
PROJECT NAME	SMART SOLUTION FOR RAILWAYS

## PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

### 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);
```

```
pinMode(red1ed, OUTPUT);
pinMode(green1ed,OUTPUT);
pinMode(buzzer, OUTPUT);
pinMode(sensor, INPUT);
serial.begin(9600); 1cd.begin(16,2);

}
```

```
Void loop()
```

```
{

    int analogValue = analogRead(sensor);
    Serial.print(analogvalue);
    if(analogValue>sensorThresh)
    {

        digitalWrite(red1ed, HIGH);
        digit1Weite(green1ed,LOW);
        tone(buzzer,1000,10000);
        1cd.clear(); 1cd.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);  
}  
}
```