

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

| | |
|--------------|-----------------------------|
| TEAM ID | PNT2022TMID05270 |
| 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(red1ed,HIGH);
```

```
        digit1Weite(green1ed,LOW
```

```
    );tone(buzzer,1000,10000
```

```
    ); 1cd.clear();
```

```
    1cd.setCursor(0,1);
```

```
    1cd.print("RAILWA
```

```
YS"); delay(1000);
```

```
    1cd.clear();
```

```
    1cd.setCursor(0,1);
```

```
    1cd.print("SMART SOLUTION");
```

```
    delay(1000);
```

```
}
```

```
else
```

```
{
```

```
    digitalWrite(greenlad,H
```

```
IGH);
```

```
    digitalWrite(red1ed,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);
}
}
```