

PROJECT DEVELOPMENT PHASE

Project Title: Smart Solution for Railways

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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);
}
}

```