

Project Development Phase
PROJECT DEVELOPMENT DELIVERY OF SPRINT -1

Team ID	PNT2022TMID42348
Project Name	Project - Smart solutions 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(analog value);
If(analogValue>sensorThresh)
{
digitalWrite(red1ed,HIGH);
digit Weight(green 1ed,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(greenland,HIGH);
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);  
}  
}
```