

PROJECT DEVELOPMENT

DELIVERY OF SPRINT-1

<i>DATE</i>	07-11-2022
<i>TEAM ID</i>	PNT2022TMID26639
<i>PROJECT NAME</i>	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(redLED,HIGH);  
        digitalWrite(greenLED,LOW);  
        tone(buzzer,1000,10000);  
        lcd.clear();
```

```
1cd.setCursor(0,1);  
1cd.print("RAILWAYS"); delay(1000);  
1cd.clear();  
1cd.setCursor(0,1);  
1cd.print("SMART SOLUTION");  
  delay(1000);  
}
```

else

```
{  
  
  digitalWrite(greenlad,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);  
  }  
}
```