

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

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|--------------|-----------------------------|
| TEAM ID | PNT2022TMID31470 |
| 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(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);  
digitalWrite(green1ed,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(green1ed,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);  
}  
}
```