

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

TEAM ID	PNT2022TMID00516
PROJECT NAME	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

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);  
lcd.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();  
    }
```

```
1cd.setCursor(0,1);  
1cd.print("MONITORING");  
delay(1000);  
1cd.clear();  
1cd.setCursor(0,1);  
1cd.print("EVACUATE");  
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);  
}  
}
```