

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

Date	07 November 2022
Team ID	PNT2022TMID10102
Project Name	Project – 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(greenled,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);  
}  
}
```