

PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

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Team ID	PNT2022TMID33746
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);  
  }  
}
```