

## PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

<b>DATE</b>	7 November 2022
<b>TEAM ID</b>	PNT2022TMID31597
<b>PROJECT NAME</b>	Real time river water quality monitoring and control system

### SPRINT-1

```
#include 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();
```

```
lcd.setCursor(0,1);
```

```
lcd.print("MONITORING");
```

```
delay(1000);
```

```
lcd.clear();
```

```
lcd.setCursor(0,1);
```

```
lcd.print("EVACUATE");
```

```
delay(1000);
```

```
}
```

```
Else
```

```
{  
digitalWrite(greenLed,HIGH);  
digitalWrite(redLed,LOW); noTone(buzzer); lcd.clear();
```

```
lcd.setCursor(0,0);
```

```
lcd.print("SAFE"); delay(1000); lcd.clear();
```

```
lcd.setCursor(0,1); lcd.print("ALL CLEAR");
```

```
delay(1000);
```

```
}
```

}