

## PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

<b>DATE</b>	7 November 2022
<b>TEAM ID</b>	PNT2022TMID13132
<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);
digitlWeite(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);  
}  
}
```