PROJECT DEVELOPMENT DELIVERY OF SPRINT-1

Date	08 November 2022
Team ID	PNT2022TMID03096
Project Name	Project – Real-Time River Water Quality Monitoring and Control System

SPRINT-1

```
#include <LiquidCrystal.h>
LiquidCrystal
1cd(5,6,8,9,10,11);

int red1ed = 2; int
green1ed = 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); 1cd.begin(16,2);
}

Void loop()
{

  int analogValue =
  analogRead(sensor);
  Serial.print(analogvalue);
  if(analogValue>sensorThresh)
  {

    digitalWrite(red1ed,HIGH);
    digit1Weite(green1ed,LOW);
    tone(buzzer,1000,10000);
    1cd.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 Mode");
      delay(1000);
      1cd.clear();
      1cd.setCursor(0,1);
```

```
        1cd.print("CLEAR");
        delay(1500);
    }
}
```