

# PROJECTDEVELOPMENTDELIVERYOFSPRINT-1

Date	18 November2022
Team ID	PNT2022TMID11765
ProjectName	Project–Real-TimeRiverWaterQualityMonitoringand ControlSystem

## SPRINT-1

```
#include <LiquidCrystal.h>
```

```
LiquidCrystal1cd(5,6,8,9,10,11);
```

```
intred1ed=2;intgr
```

```
een1ed =
```

```
3;intbuzzer=4;int
```

```
sensor=A0;
```

```
intsensorThresh=400;voids
```

```
etup()
```

```
{  
  pinMode(red1ed,  
  OUTPUT);pinMode(green1ed,OUT  
  PUT);pinMode(buzzer,OUTPUT);pi  
  nMode(sensor,INPUT);serial.begin(  
  9600);1cd.begin(16,2);  
}
```

```
Voidloop()
```

```
{  
  
  intanalogValue=analogRead(sensor);S  
  erial.print(analogvalue);if(analogValu  
  e>sensorThresh)  
  {  
  
    digitalWrite(red1ed,HIGH);digit1Weite(green1ed,LO  
    W);tone(buzzer,1000,10000);1cd.clear();
```

```
    lcd.setCursor(0,1);
    lcd.print("MONITORING");
    delay(1000);lcd.cl
ear();lcd.setCurso
r(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.cl
ear();lcd.setCurso
r(0,1);
```

```
1cd.print("ALL  
CLEAR");delay(1000);  
}  
}
```