Team id:PNT2022TMID47948

Title: Real time river water quality

Monitoring using IOT

Date: 18-11-2022

Coding for our Project

import time.sleep

while True

```
totalVoltageReading = 0
for count in range(800):
    currentVoltageReading =
float(anlogRead(rpiGpioSensorPinNum /
1023) * 5)
    totalVoltageReading =
totalVoltageReading +
currentVoltageReading
```

```
averageVolteageReading =
totalVoltageReading / 800
 roundedUpAverageVoltageReading =
round(averageVoltageReading)
 if roundedUpAverageVoltageReading <
2.5:
  nephelometricTurbidityUnit = 3000
 elif
  nephelometricTurbidityUnit = -(1120.4 *
square(roundUpAverageVoltageReading) +
(5742.3 * roundUpAverageVoltageReading
- 4353.8)
 lcd.clear()
 lcd.setCursor(0, 0)
lcd.print(roundedUpAverageVoltageReadin
g, "V")
 lcd.setCursor(0, 1)
 lcd.print(nephelometricTurbidityUnit,
"NTU")
```

sleep(10)