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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)