

```
#include<LiquidCrystal.h>

LiquidCrystal lcd(2, 3, 4, 5, 6, 7);


#define sensor_pin A0

int read_ADC;

int ntu;


void setup(){// put your setup code here, to run once

pinMode(sensor_pin, INPUT);


lcd.begin(16, 2); // Configura lcd numero columnas y filas

lcd.clear();

lcd.setCursor (0,0);

lcd.print(" Welcome To ");

lcd.setCursor (0,1);

lcd.print("Turbidity Sensor");

delay(2000);

lcd.clear();

}


void loop(){

read_ADC = analogRead(sensor_pin);

if(read_ADC>208)read_ADC=208;


ntu = map(read_ADC, 0, 208, 300, 0);
```

```
lcd.setCursor(0,0);
```

```
lcd.print("Turbidity: ");
```

```
lcd.print(ntu);
```

```
lcd.print(" ");
```

```
lcd.setCursor(0,1);//set cursor (column by row) indexing from 0
```

```
if(ntu<10)      lcd.print("Water Very Clean");
```

```
if(ntu>=10 && ntu<30) lcd.print("Water Norm Clean");
```

```
if(ntu>=30)     lcd.print("Water Very Dirty");
```

```
delay(200);
```

```
}
```