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#include<LiquidCrystal.h>
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#include <Servo.h>

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int pot;
int led = 7;
int sensor = A0;
int sensorValue = 0;
Servo serial;

LiquidCrystal lcd (12, 11, 5, 4, 3, 2);;

void setup() {
    Serial.begin(9600);
    pinMode(led, OUTPUT);
    pinMode(sensor, INPUT);
}

void loop() {
    serial.write(map(pot,22,40, 0, 180));;
```

```
lcd.begin(16,2);
 sensorValue = analogRead(sensor);
 if(sensorValue > 100) {
  digitalWrite(led, HIGH);
  lcd.print("LED");
  lcd.setCursor(0, 1);
  lcd.print("LIGADO =)");
 }
 else{
  digitalWrite(led,LOW);
  lcd.print("LED");
  lcd.setCursor(0,1);
  lcd.print("DESLIGADO =(");
 }
Serial.print ("Leitura atual do sensor: ");
 Serial.println(sensorValue);
 delay(1000);
}
```