CODE

```cpp
#include <LiquidCrystal.h>
const int sensorPin = A0;
const int relayPin = 7;
int moistureLevel = 0;
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);
void setup() {
  Serial.begin(9600);
  pinMode(relayPin, OUTPUT);
  digitalWrite(relayPin, HIGH);
  lcd.begin(16, 2);
  lcd.print("Smart Irrigation");
}
void loop() {
  moistureLevel = analogRead(sensorPin);
  Serial.print("Soil Moisture Level: ");
  Serial.println(moistureLevel);
  lcd.setCursor(0, 0);
  lcd.print("Moisture: ");
  lcd.print(moistureLevel);
  lcd.print("   ");
  if (moistureLevel < 300) {
    digitalWrite(relayPin, LOW);
    lcd.setCursor(0, 1);
    lcd.print("Watering...    ");
  } else {
    digitalWrite(relayPin, HIGH);
    lcd.setCursor(0, 1);
    lcd.print("No Watering    ");
  }
delay(1000);
}
```