Water Irrigation system: Group -04

```
int soilpin = A0;
int soiloutput;
int watersensor = 9;
int waterlevel=0;
int relaypin = 8;

#include <Wire.h>
#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C lcd(0x27,20,4);
void setup() {
  Serial.begin(9600);
  pinMode(watersensor, INPUT);
  pinMode(relaypin, OUTPUT);
  digitalWrite(relaypin, HIGH);
}
void loop() {
  soiloutput= analogRead(soilpin);

  soiloutput = map(soiloutput,550,0,0,100);

  Serial.print("Mositure : ");

  Serial.print(soiloutput);

  Serial.println("%");

  if( digitalRead(watersensor) == LOW) {
```

```
    Serial.println("No Water Detected");
    if(soiloutput<20.00){
      digitalWrite(relaypin, LOW);
      Serial.println("Motor On");
    }
    else if(soiloutput>30.00){
      digitalWrite(relaypin, HIGH);
      Serial.println("Motor Off");
    }
  }else {
    Serial.println("Water Detected");
    digitalWrite(relaypin, HIGH);
    Serial.println("Motor Off");
  }
  delay(1000);
}
```

Relay board:

```
int in1 = 8;
void setup() {
  pinMode(in1, OUTPUT);
  digitalWrite(in1, LOW);
}
void loop() {
}
```