Circuit design Automated Irr

https://www.tinkercad.com/things/2eVlgu1Xmua-automated-irrigation-system/editel

Automated Irrigation System

All changes saved

Simulator time: 00:00:53

Code | Stop Simulation | Send To

BIPRITI DEB SARMA

Design to be implemented on Hardware

Water Pump

Soil Moisture

Alarm(Buzzer)

Screen(LCD)

Temp= 43.000
WaterPump= ON

Components
Basic

Search

Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V Battery
Coin Cell 3V Battery
1.5V Battery
Breadboard Small
micro:bit
Arduino Uno R3
Vibration Motor
DC Motor
Micro Servo

Circuit design Automated Irr

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Automated Irrigation System

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Simulator time: 00:01:18

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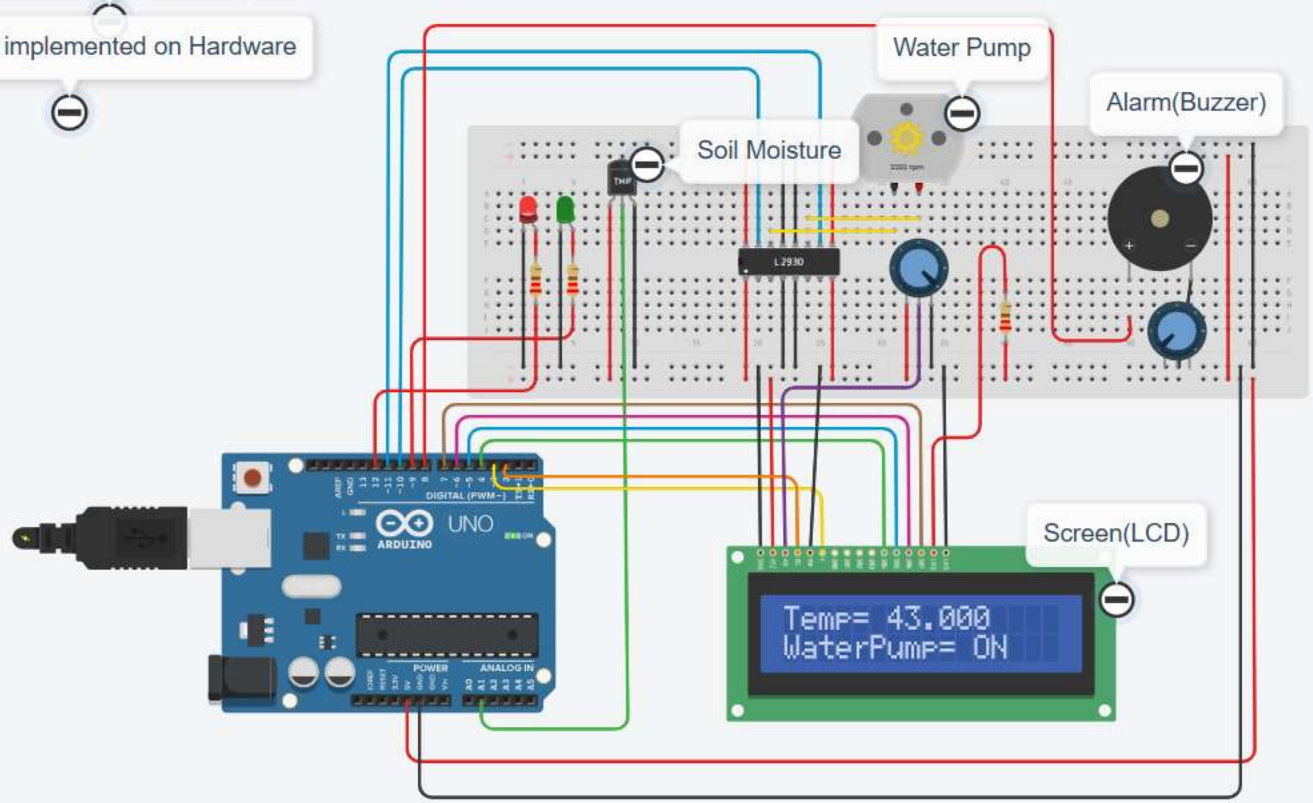
1 (Arduino Uno R3)

BIPRITI DEB SARMA

Design to be implemented on Hardware




```
34
35  void loop() {
36
37    int value = analogRead(temp);
38    float Temperature = value;
39    Serial.print("Soil Temperature = ");
40    Serial.print(Temperature);
41    Serial.print("\n");Serial.print("\n");
42    lcd.setCursor(6,0);
43    lcd.print(Temperature);
44    lcd.setCursor(11,1);
45
46
47    if (Temperature > 30){
48      digitalWrite(motor_terminal2, HIGH);
49      digitalWrite(motor_terminal1, LOW);
50      digitalWrite(LedRed, HIGH);
51      digitalWrite(LedGreen, LOW);
52      tone(Buzzer,220,100);
53      lcd.print("ON ");
54      Serial.print("Warning...!!!! Soil temperature is high");
55      Serial.print("\n");Serial.print("\n");
56      Serial.print("Need water!! Switch on water pump");
57      Serial.print("\n");Serial.print("\n");
58    }
59    else {
```

Serial Monitor

```
Soil Temperature = 43.00

Warning...!!!! Soil temperature is high

Need water!! Switch on water pump
```

Send | Clear