

Simulator time: 00:00:56

Code

Stop Simulation

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▶

1 (Arduino Uno R3) ▼

```

1 #include <LiquidCrystal.h>
2 const int LM = A0;
3 const int motor = 13;
4 const int Red = 12;
5 const int Green = 11;
6 LiquidCrystal lcd(2, 3, 4, 5, 6, 7);
7 void setup() {
8   Serial.begin(9600);
9   lcd.begin(16, 2);
10  lcd.print("Automated Plant");
11  lcd.setCursor(0,1);
12  lcd.print("Watering System!");
13  pinMode(motor, OUTPUT);
14  pinMode(Red, OUTPUT);
15  pinMode(Green, OUTPUT);
16  delay(2000);
17  lcd.clear();
18  lcd.print("Temp= ");
19  lcd.setCursor(0,1);
20  lcd.print("Pump= ");
21 }
22 void loop() {
23   int value = analogRead(LM);
24   float Temperature = value * 500.0 / 1023.0;
25   lcd.setCursor(6,0);
26   lcd.print(Temperature);
27   lcd.setCursor(11,1);
28
29   if (Temperature > 35){
30     digitalWrite(motor, HIGH);
31     digitalWrite(Red, HIGH);
32     digitalWrite(Green, LOW);
33     lcd.print("ON ");
34   }
35   else {
36     digitalWrite(motor, LOW);
37     digitalWrite(Red, LOW);
38     digitalWrite(Green, HIGH);
39     lcd.print("OFF");
40   }
41
42   delay(1000);
43 }

```

Serial Monitor

```
#include <LiquidCrystal.h>

const int LM = A0;

const int motor = 13;

const int Red = 12;

const int Green = 11;

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

void setup() {

  Serial.begin(9600);

  lcd.begin(16, 2);

  lcd.print("Automated Plant");

  lcd.setCursor(0,1);

  lcd.print("Watering System!");

  pinMode(motor, OUTPUT);

  pinMode(Red, OUTPUT);

  pinMode(Green, OUTPUT);

  delay(2000);

  lcd.clear();

  lcd.print("Temp= ");

  lcd.setCursor(0,1);

  lcd.print("Pump= ");

}

void loop() {

  int value = analogRead(LM);

  float Temperature = value * 500.0 / 1023.0;

  lcd.setCursor(6,0);
```

```
lcd.print(Temperature);
```

```
lcd.setCursor(11,1);
```

```
if (Temperature > 35){
```

```
    digitalWrite(motor, HIGH);
```

```
    digitalWrite(Red, HIGH);
```

```
    digitalWrite(Green, LOW);
```

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

```
}
```

```
else {
```

```
    digitalWrite(motor, LOW);
```

```
    digitalWrite(Red, LOW);
```

```
    digitalWrite(Green, HIGH);
```

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

```
}
```

```
delay(1000);
```

```
}
```