# **Smart Irrigation**

# Harsha R

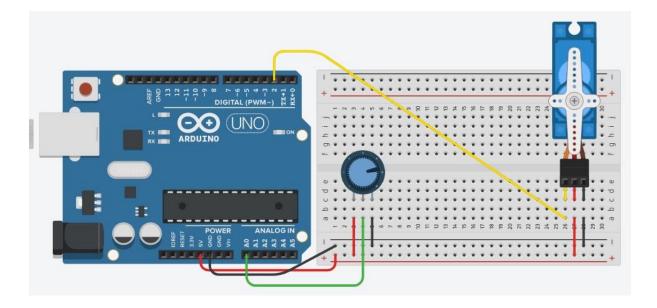
## 1BM18CS034

<u>Aim</u>: To open and close the valve for water automatically using a moisture sensor.

### **Hardware Required**

- Arduino Board
- Potentiometer
- Servo Motor

#### **Circuit Diagram**



Code:

/ BALLECS CLAU # include < Seems 4> Selus myselus, int pos = 0; int seryor pin = AO; int sensolvalue = 0, upid setupe) & myselvo. attach (9); Serial begin (9600); y word loop () ? Sensovalue = curalog fead ( sensa Pin); if (sensor Value > 500) ? for pos =0; pos <=180; pos 1=1){ myselno. curite (pos); delay(15); 3 fol ( pos=180; pos>=0; pos-=1) { myselus, write (pos); delay (15). 4 delay (100);

### **Observation / Output**

Automatically opens and closes the valve for water when moisture dips below a certain level.