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# Smart Irrigation System Using Arduino Uno

A smart irrigation system using Arduino Uno. Control the water requirement of the soil according to the moisture levels.

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Arduino IDE

(https://www.arduino.cc/en/main/software)



(https://www.arduino.cc/en/main/software)

(https://www.arduino.cc/en/main/software)

## ABOUT THIS PROJECT



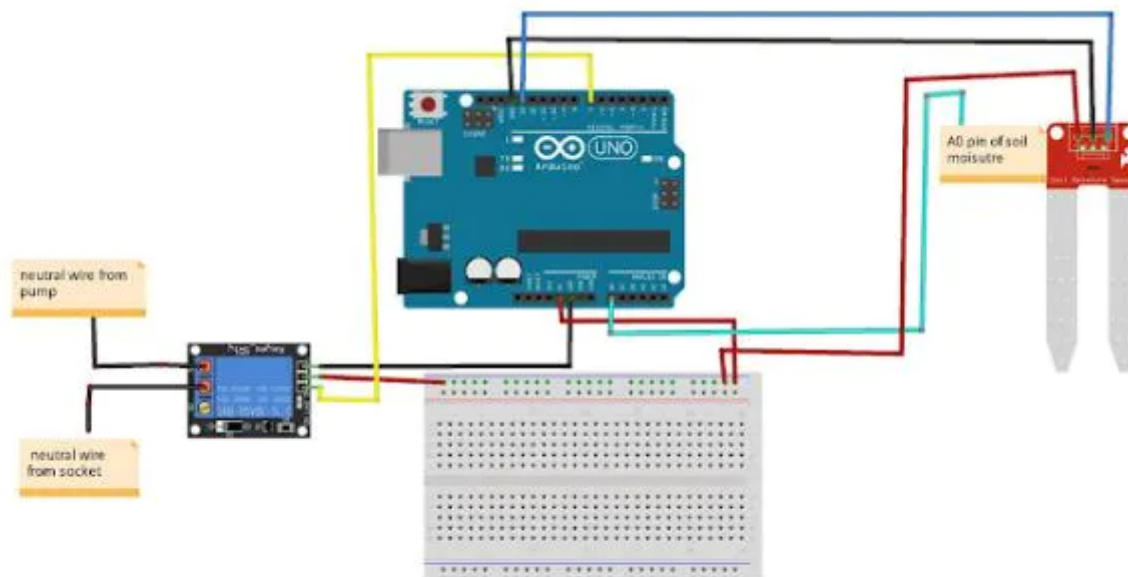
In an automatic plant watering system or we can say it **smart irrigation system**. we are using an Arduino microcontroller to control and sense the thing in the projects such as sense or measure the moisture in the soil we are using soil moisture sensor. the soil moisture sensor is a sensor which varies the value when it contacts the moisture. basically it is a resistor that works on moisture condition. when the moisture is more then the value of resistance will decrease and when the moisture is less then the resistance value is more.

so we have to first calibrate the sensor into the different moisturizing condition of the water. you can check it into the water also. so now you have some value from the different conditions. Now, you can make the code according to the value. put these values in the if the condition of code. and this if the condition decides the pump will work or not. for detail article with code and circuit visit techatronic (https://techatronic.com/smart-irrigation-system-using-arduino/)by click

### Smart Irrigation System Using Arduino and Servo Motor



## Circuit diagram of smart irrigation system



In the above diagram, you can see the connections clearly. to make it easier go to the smart irrigation system tutorial (<https://www.youtube.com/watch?v=kxwwZHPb06M>) from where you can download the code and all the steps to make these awesome projects easily. subscribe us (<https://www.youtube.com/channel/UCZ2oLjhJf-6JEwVIPsLs5sw>) on youtube to learn more

### CODE

**smart irrigation system code** C#