

Algorithm:

STEP 1: START

STEP 2: Select mode

STEP 3: If Mode == Automatic

- 1) Read the soil moisture
- 2) If moisture level < minimum threshold
Then,
Open the required valve
- 3) If moisture level == minimum threshold
Then,
Close the valve

STEP 4: If Mode == Time Interval

- 1) Set the time interval
- 2) If Time passed != Time Interval
Then,
Open the required value
- 3) If Time passed == Time Interval
Then,
Close the valve

STEP 5: Mode == Manual

- 1) Set the choice: Yes or No
- 2) If choice == Yes
Then,
Open the valve
- 3) If choice == No
Then,
Close the valve

STEP 6: END