1. Automated gardening system using an arduino and other cheap electronic parts.
2. It allows sustainable gardening by using sensors to determine soil moisture
3. It uses this information to save water by only using the requisite amount.
4. In the world of advance electronics, life of human beingsthe world of advance electronics, life of human beings should be simpler hence to make life more simpler andshould be simpler hence to make life more simpler and convenient,
5. This system is very useful in Farms, **gardens**, home etc
6. The model shows the basic switching mechanism of WaterThe model shows the basic switching mechanism of Water motor using sensors from any part of field by sensing themotor using sensors from any part of field by sensing the moisture present in the soil.moisture present in the soil.
7. MERITSMERITS ¬ Highly sensitive, Low cost and reliable circuit.Highly sensitive, Low cost and reliable circuit. ¬ Works according to the soil condition.Works according to the soil condition. ¬ Complete elimination of manpower.Complete elimination of manpower. ¬ Can handle heavy loads up to 7A.Can handle heavy loads up to 7A. ¬ System can be switched into manual mode wheneverSystem can be switched into manual mode whenever required.required.
8. DEMERITSDEMERITS ¬ This is applicable for only large farms.This is applicable for only large farms. ¬ Have limited life after installation due to the detoriation ofHave limited life after installation due to the detoriation of the plastic component in a hot, arid climate when exposedthe plastic component in a hot, arid climate when exposed to ultraviolet lightto ultraviolet light..

**Water tank management**

1. water level management approach would help in reducing the home power consumption and as well as water overflow.
2. The system employs the use of advance sensing technology to detect the water level.