**What is Arduino?**

[Arduino](http://arduino.cc/) is an open-source platform used for building electronics projects. Arduino consists of both a physical programmable circuit board (often referred to as a [microcontroller](http://en.wikipedia.org/wiki/Microcontroller)) and a piece of [software](http://arduino.cc/en/Main/Software), or IDE that runs on your computer, used to write and upload computer code to the physical board.

**MH sensor**

The soil moisture sensor is usually used to detect the humidity of the soil. So, it is perfect to build an automatic watering system or to monitor the soil moisture of your plants.

When there is more water, the soil will conduct more electricity which means that there will be less resistance. Therefore, the moisture level will be higher. Dry soil conducts electricity poorly, so when there will be less water, then the soil will conduct less electricity which means that there will be more resistance. Therefore, the moisture level will be lower.

**Irrigation system**

Irrigation is the application of controlled amounts of water to plants at needed intervals. Irrigation helps to grow agricultural crops, maintain landscapes, and revegetate disturbed soils in dry areas and during periods of less than average rainfall

**Reason**

In recent years technology is used in every sector. As well as in agriculture also. Farmers nowadays are very concerned about irrigation system. In this project we are going to check humidity which is main thing in irrigation system and every crop depend on it. Humidity has a long history on development of plant growth. Arduino, the open source hardware has shown ability to meet the need of accurate and real-time monitoring and controlling of environmental variables like humidity. Our main concern is to show the display that a farmer can easily look up and understand what is the percentage of humidity right now. Following that they can do the irrigation