**WATER LEVEL INDICATOR**

The aim of this project is to design a water level indicator using Arduino IoT cloud and NodeMCU board. To build the project, our required components are,

* NodeMCU 0.1 ESP12 Module
* Water Level Sensor
* LED(Red)

**Introduction:**

A water level indicator is a system that relays information back to a control panel to indicate whether a body of water has a high or low water level. Some water level indicators use a combination of probe sensors or float switches to sense water levels. “The Water Level Indicator" employs a simple system to detect and indicate the water level in an overhead tank or any other water container.

The purpose of the water level indicator is to measure and gauge water levels in a water tank. The control panel can also be programmed to automatically turn on a water pump once levels get too low and refill the water back to the adequate level.

A water level sensor, also known as a probe sensor, is what tells the control panel that the water level at present is low or high. A combination of high and low sensors is used to tell the control panel when water levels are too high or too low. The control panel will then automatically turn the pump on or off depending on the corrective action needed.

**Working:**

The Water Level Indicator will allow the person to measure and monitor the water level inside of a water tank from anywhere in the world. Also, a red led indication will be provided to the system so that whenever the water level going below to a particular level, the led will give indication. The person can monitor the water level inside the water tank over a gauge meter widget created on the Arduino IoT cloud dashboard.

The water level gauge meter is internet connected so that the persons can measure the real time values regarding the water level from anywhere in the world. The working of the project is so simple, we have to create a water level gauge widget on the dashboard of Arduino IoT cloud and write corresponding sketch for the application. Once the program is installed, there is an application available on both play store and app store called “Arduino IoT remote”, people can login to the created dashboard from the application and access the widget. The next step is to monitor the measured values.