# CHAPTER 2

# METHODOLOGY

## 2.1 EXISTING SYSTEM

Weather monitoring of the environmental condition of any local area or a surrounding area of a crop field has been monitored using ESP8266 via IOT cloud. There are several IOT cloud platform available on internet such as android IOT, blink version 1.0, blink version 2.0. These are the available platform to connect through the cloud. The rain sensors and the pressure sensors libraries has been updated. They connect these sensors through these cloud platforms and see the output through cloud communication.

## 2.2 PROPOSED SYSTEM

The working of the system is starts with collection of the data from the sensors and the data are processed and transfer through node MCU module to the cloud platform thing speak there we can view the output of the sensors in the form of a output console with more accuracy and data transfer speed is greater compare to the other IOT cloud platform and also connectivity of the node MCU is more stronger than the other MCU. When this system is powered on, the Node board connects to the algorithm development system called MATLAB through the Thing speak cloud. Then, values are obtained from the sensors. Also, these values are sent to the thing speak app using the internet. Then, we can see the values as visualization on the screen.