

# Vertical Hydroponic :-

## **Abstract :**

The Vertical Farming is the advanced level of agriculture technology where this has to be practiced when there is unavailable of land and other requirements for the perfect structure of farming mode, this is the new way or approach in the advanced level.

## **Tools:**

Arduino Board

Ultrasonic sensor

Buzzer

jumper wires

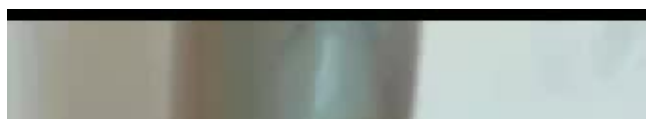
PVC pipes

Relay module

Water Pump

## **Procedure :**

Hydroponic is a method of growing plants using mineral solution, in water, without soil. First we created the vertical structure. We connected the motor in that place. We used the arduino board and connected the ultrasonic sensor. Ultrasonic sensor measures the distance of water level. If water level is low it indicates a buzzer sound.





**Result :**

The benefits of vertical farming with hydroponics include a smaller footprint, less water usage, and less need for pesticides and herbicides.