

## PROJECT 4

### Rain water Sensor

#### **INTRODUCTION: -**

water sensor to detect rainfall, water leakage, tank overflow, and measure the water level. Simply, the more water the sensor is sank in, the higher the output voltage in the S pin is. By measuring the voltage, we can know the water level.

#### **COMPONENTS: -**

1. Rain Water Sensor
2. Wemos

#### **APPLICATION:-**

This sensor is used as a water preservation device and this is connected to the irrigation system to shut down the system in the event of rainfall.

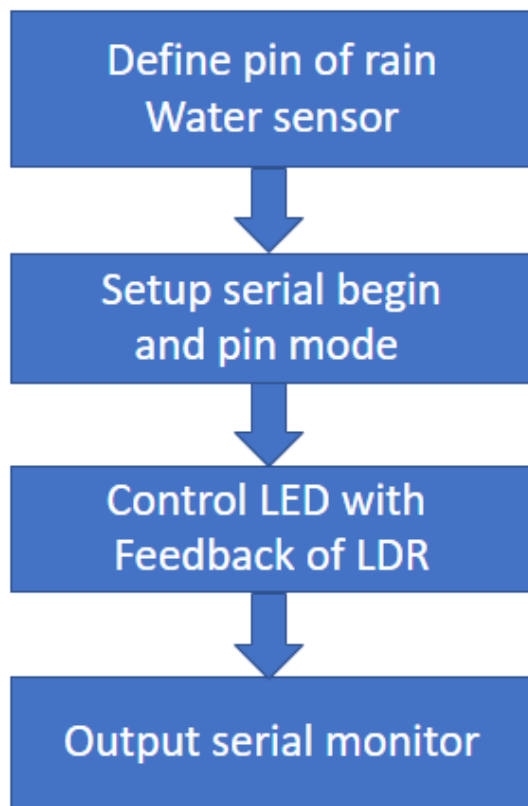
This sensor is used to guard the internal parts of an automobile

against the rainfall as well as to support the regular windscreen wiper's mode.

## **OBJECTIVES: -**

Rain water detector will detect the rain and make an alert; rain water detector is used in the irrigation field, home automation, communication, automobiles etc.

## **FLOW CHART :-**



## PROGRAMMING:-

```
#define rainAnalog A0  
#define rainDigital D1  
void setup() {  
  Serial.begin(9600);
```

```
pinMode(rainDigital,INPUT);  
}  
void loop() {  
  int rainAnalogVal = analogRead(rainAnalog);  
  int rainDigitalVal = digitalRead(rainDigital);  
  Serial.print(rainAnalogVal);  
  Serial.print("\t");  
  Serial.println(rainDigitalVal);  
  delay(200);  
}
```

## **HARDWARE CONNECTION:-**

1. Connect rain water sensor to wemos.
2. Connect pin AO to D1
3. Connect pin 5V to 5V
4. Connect pin GND to GND

## CURCUIT DIAGRAM :-

