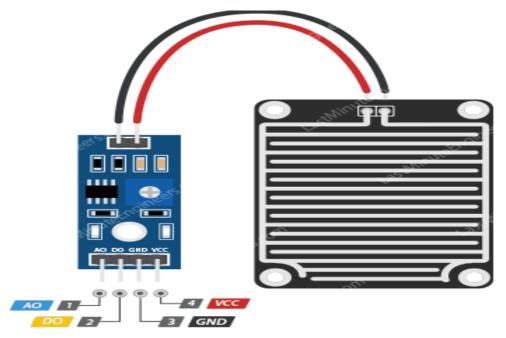


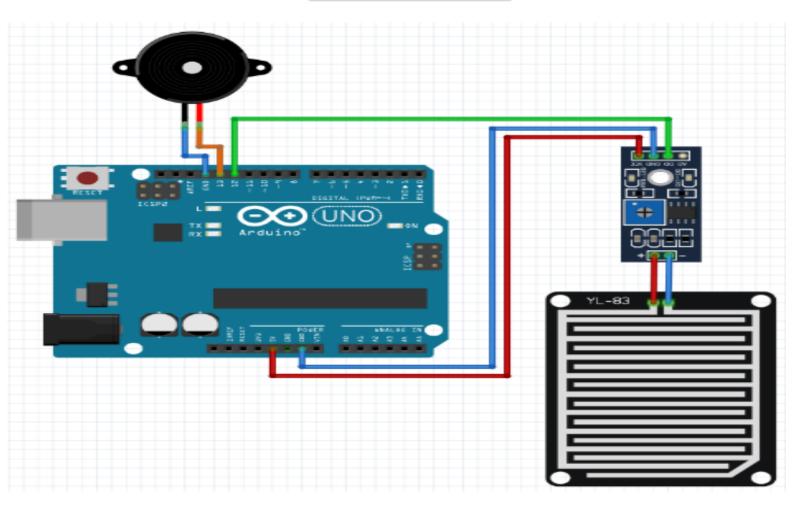
What is Rain Water Sensor?

- ➤ A rain sensor is one kind of switching device which is used to detect the rainfall.
- We can take digital (DO pin) as well as analog (AO pin) output from this sensor.



Circuit Connection for RW

<u>Sensor</u>



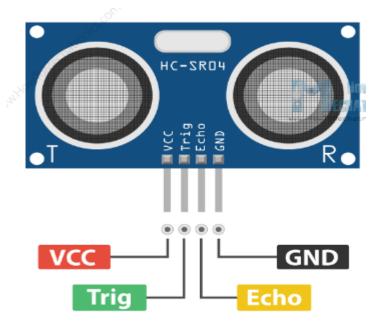
Coding for RW Sensor

```
#define rainfall A0
#define buzzer 13
int value;
int set=10;
void setup()
Serial.begin(9600);
pinMode(13,OUTPUT);
pinMode(A0,INPUT);
```

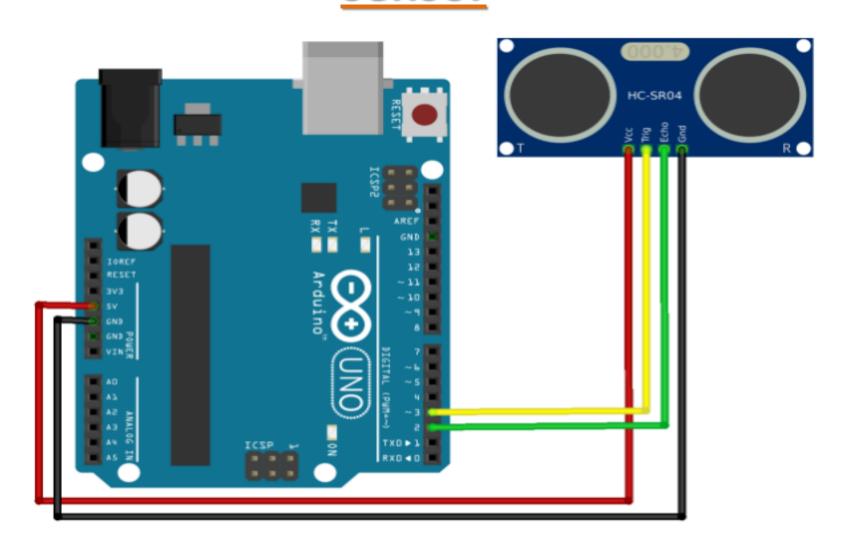
```
void loop()
value = analogRead(rainfall);
Serial.println(value);
value =
map(value, 0, 1023, 225, 0);
if(value>=set){
Serial.println("rain detected");
digitalWrite(buzzer,HIGH);}
else{
digitalWrite(buzzer, LOW);
}}
```

What is Ultrasonic Sensor?

- Ultrasonic sensors are also called Proximity sensors. They can be found in automobile self-parking technology and anti-collision safety systems.
- Ultrasonic sensors are also used in robotic obstacle detection systems, as well as manufacturing technology.



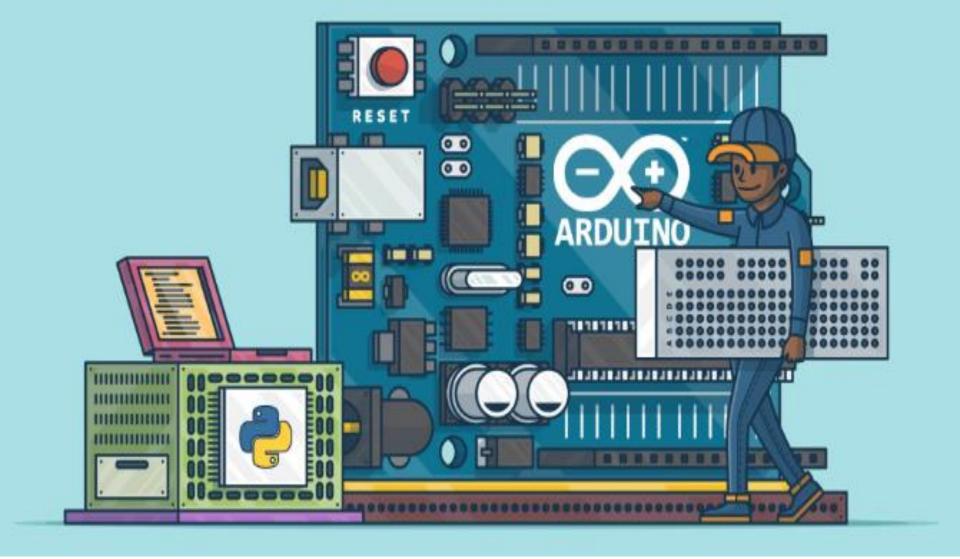
<u>Circuit Connection for Ultrasonic</u> <u>sensor</u>



Coding part....!!

```
int const trigPin=3;
int const echoPin=2;
void setup()
pinMode (trigPin,OUTPUT);
pinMode(echoPin,INPUT);
Serial.begin(9600);
```

```
void loop(){
int duration, distance;
digitalWrite(trigPin,HIGH);
delay(100);
digitalWrite(trigPin,LOW);
duration=pulseIn(echoPin,HIGH);
  distance=(duration/2)*0.0343;
Serial.print("distance:");
Serial.print(distance);
Serial.println();
```



THANK YOU!