## Sakshi Srivastava

# 1BM18CS090

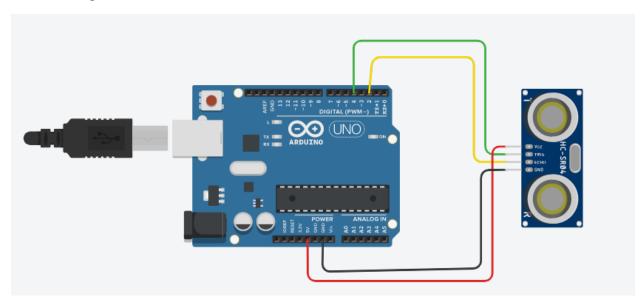
### PROGRAM TITLE: DISTANCE MEASURING

Aim: DESIGN A SYSTEM TO MEASURE THE DISTANCE BETWEEN OBJECTS

#### Hardware Required:

- Arduino Board
- Ultrasonic Sensor

#### Circuit Diagram:



#### Write-Up:

```
Name: Sakshi Srivastava (18M18cs090)
                                                                  Date 7 10 2020
Expt. No. . . 9.
                                                              Page No. 13.
 Aim. Design a system to measure the distance between objects.
 HARDWARE REQUIRED:
2 Andrino - Board
, utrasonic sensor
  CODE :-
   mir triglin = 4;
   uit echopin = 2.
   rong duration, cun, wiches;
   void setup () {
   minode (tighin, output);
minode (tighin, output);
minode (tellorin, INPUT);
    Void Loop ()
    & digital Write (trighin, 1000);
    delaythero seconds (5).

digital write ( trighin , 1916/14).

delaythero seconds (10);

digital write ( trighin , LOW).
```

t. No. 9	Date 7 W LOW
(,100	Page No. 14
miMade ( echolin INGUT).	
priMode[echolin, INPUT).  duration = pulsetn(echolin, HIGH):	
cm = (duration/2)/19.1.	
wiches = (duration /2) / 74.	
suial punt ("Distance: ").	
Savial. punit ( inches).	
serial. print (" in, ").	
send punt (com);	
smal, pruit ("cu").	
levial. puntin();	
	A Later Control
delay (250);	B. L. F. T. T.
1	All gardin
	AND THE RESERVE

# CODE: int trigPin = 4; int echoPin = 2; long duration, cm, inches; void setup() { Serial.begin (9600); pinMode(trigPin, OUTPUT); pinMode(echoPin, INPUT); } void loop() { digitalWrite(trigPin, LOW); delayMicroseconds(5); digitalWrite(trigPin, HIGH); delayMicroseconds(10); digitalWrite(trigPin, LOW); pinMode(echoPin, INPUT); duration = pulseIn(echoPin, HIGH);

cm = (duration/2) / 29;

```
inches = (duration/2) / 74;
Serial.print("Distance: ");
Serial.print(inches);
Serial.print("inches, ");
Serial.print(cm);
Serial.print("cm");
Serial.println();
```

## OUTPUT/OBSERVATION:

The distance is being measured.