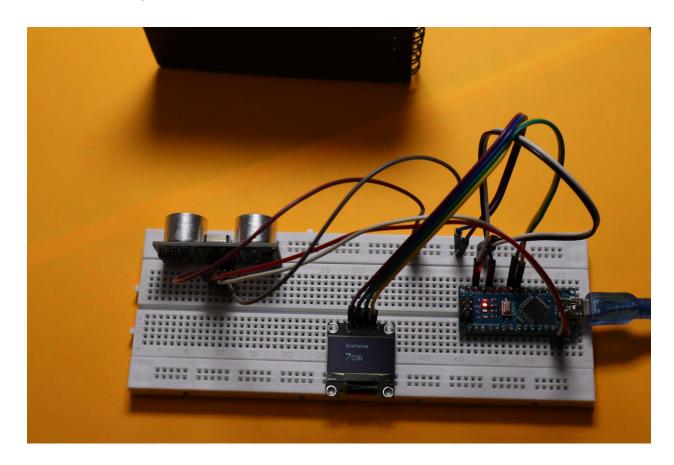
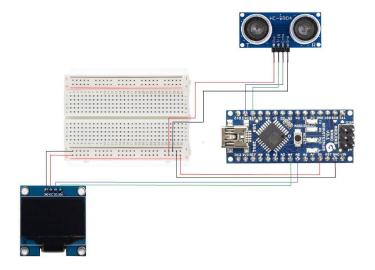
# Interfacing of Ultrasonic Distance Sensor with Arduino Nano

# Material Required in:

- 1. Arduino Nano + Cable <a href="https://amzn.to/3M2Enfg">https://amzn.to/3M2Enfg</a>
- 2. Breadboard <a href="https://amzn.to/3y5IQrO">https://amzn.to/3y5IQrO</a>
- 3. Ultrasonic sensor https://amzn.to/3y9jau7
- 4. I2C 128X64 OLED display <a href="https://amzn.to/3eg9Hdt">https://amzn.to/3eg9Hdt</a>
- 5. Connecting wires (M-M) https://amzn.to/3cl97EY



# 



# Code = :

```
#include <Wire.h>
#include <Adafruit_GFX.h>
#include <Adafruit_SSD1306.h>

#define SCREEN_WIDTH 128 // OLED display width, in pixels
#define SCREEN_HEIGHT 64 // OLED display height, in pixels

// Declaration for an SSD1306 display connected to I2C (SDA, SCL pins)
Adafruit_SSD1306 display(SCREEN_WIDTH, SCREEN_HEIGHT, &Wire, -1);

#define trigpin 10
#define echopin 11

int dist;
int durat;

void setup()
{
```

```
if(!display.begin(SSD1306 SWITCHCAPVCC, 0x3C)) { // Address 0x3D for
128x64
  Serial.println(F("SSD1306 allocation failed"));
  for(;;);
 }
 delay(2000);
 display.clearDisplay();
pinMode(trigpin,OUTPUT);
pinMode(echopin,INPUT);
pinMode(5,OUTPUT);
Serial.begin(115200);
void loop()
 display.clearDisplay();
digitalWrite(trigpin,LOW);
delay(2);
digitalWrite(trigpin,HIGH);
delay(10);
digitalWrite(trigpin,LOW);
durat=pulseIn(echopin,HIGH);
dist = durat * 0.0342/2;
Serial.print("Distance=");
Serial.println(dist);
 display.setTextSize(1);
 display.setTextColor(WHITE);
 display.setCursor(32, 10);
 // Display static text
 display.println("Distance ");
 display.setTextSize(2);
 display.setTextColor(WHITE);
 display.setCursor(32,30);
 display.print(dist);
 display.println("cm");
```

display.display();			
}			