ASSIGNMENT 1

NAME : Janarthana G

Email : janag98765@gmail.com

SECTION : INTERNET OF THINGS

WOKWI LINK for Assignment 1 : https://wokwi.com/projects/363233383112454145

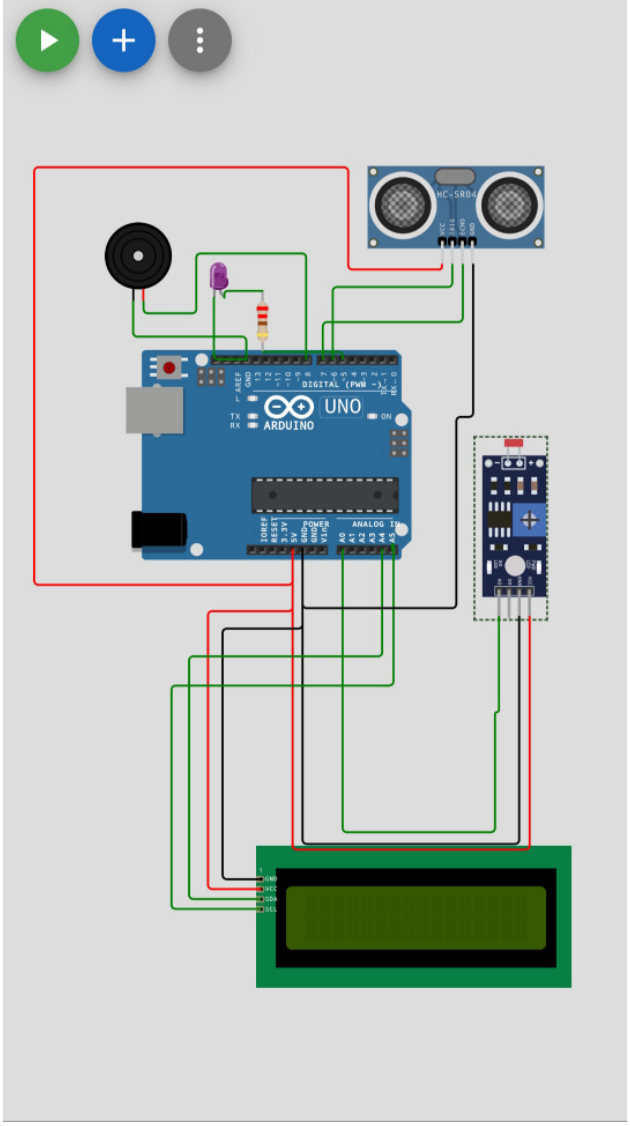
CODE :

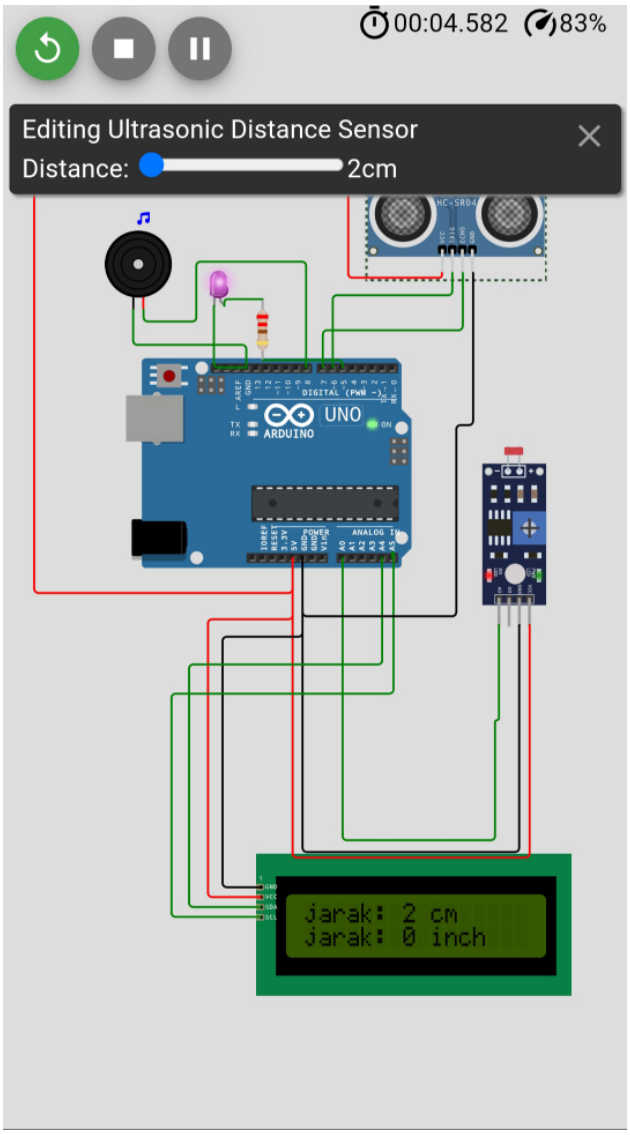
```
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd (0x27, 16, 2);
const int trigPin = 6;
const int echoPin = 7;
int buzzer = 8;
long duration;
int jarakCm, jarakInch;
int ledPin = 5;
int lux;
int i;
void setup() {
// put your setup code here, to run once:
lcd.begin(12,2);
pinMode(trigPin, OUTPUT);
pinMode(echoPin, INPUT);
Serial.begin(9600);
pinMode(ledPin, OUTPUT);
}
```

```
void loop() {
// put your main code here, to run repeatedly:
digitalWrite(trigPin, LOW);
delayMicroseconds(2);
digitalWrite(trigPin, HIGH);
delayMicroseconds(10);
digitalWrite(trigPin, LOW);
duration =pulseIn(echoPin,HIGH);
jarakCm = duration*0.034/2;
jarakInch = duration*0.0133/2;
lcd.setCursor(0,0);
lcd.print("jarak: ");
lcd.print(jarakCm);
lcd.print(" cm ");
delay(10);
lcd.setCursor(0,1);
lcd.print("jarak: ");
lcd.print(jarakInch);
lcd.print(" inch ");
delay(10);
if(jarakCm <=5){
tone(buzzer,1030);
delay(400);
noTone(8);
delay(100);
```

```
}
lux=analogRead(A0);
i= map(lux, 0, 1023, 0, 255);
analogWrite(ledPin,i);
}
```

OUTPUT:

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83%
Editing Ultrasonic Distance Sensor
Distance:
2cm
HC-SR04
UNO
ARDUINO
jarak: 2 cm
jarak: 0 inch