**DISTANCE MEASUREMENT USING ULTRASONIC SENSOR AND ARDUINO**

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(7 ,6 ,5 ,4 ,3 ,2);
#define trigPin 8
#define echoPin 9
long Duration, Distance;

void setup(){
Serial.begin (9600);
pinMode(trigPin, OUTPUT);
pinMode(echoPin, INPUT);
lcd.begin(16, 2);
}

void loop() {
digitalWrite(trigPin, LOW);
delayMicroseconds(2);
digitalWrite(trigPin, HIGH);
delayMicroseconds(10);
digitalWrite(trigPin, LOW);
Duration = pulseIn(echoPin, HIGH);
Distance = (Duration/2)/29.1;
lcd.clear();
lcd.setCursor(0,0);
lcd.print("Distance=");
```

```
lcd.setCursor(9,0);

lcd.print(Distance);

delay(500);

Serial.println(Distance);

}
```