

USN: 18MIECS103

PROGRAM : 8PROGRAM TITLE : OBJECT DISTANCE MEASUREMENTAIM : Design a system to measure the distance between objects.Hardware Required :

- Arduino
- Ultrasonic Distance Sensor

CODE :

```
int trigPin = 4;
int echoPin = 2;
long distance, 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);
```

USN: 18M18CS103

```
duration = pulseIn(echoPin, HIGH);  
cm = (duration/2)/29.1;  
inches = (duration/2)/74;  
Serial.print(" Distance: ");  
Serial.print(&inches);  
Serial.print(" inches, ");  
Serial.print(cm);  
Serial.print(": cms ");  
delay(250);  
}
```

USN: 1BM18CS103

CIRCUIT DIAGRAM:

