

Name: Nandhini L

Roll No: 1901119

ASSIGNMENT – 4

ASSIGNMENT 4-BUZZER FOR ULTRASONIC SENSOR

PROGRAM:

```
int t=2;

int e=3;
void setup()

{
    Serial.begin(9600);

    pinMode(t,OUTPUT);

    pinMode(e,INPUT);

    pinMode(12,OUTPUT);
}
void loop()

{
    //ultrasonic sensor

    digitalWrite(t,LOW);

    digitalWrite(t,HIGH);

    delayMicroseconds(10);

    digitalWrite(t,LOW)

    float dur=pulseIn(e,HIGH);

    float dis=(dur*0.0343)/2;

    Serial.print("Distance is: ");

    Serial.println(dis);


    //LED ON

    if(dis>=100)

    {

        digitalWrite

        e(8,HIGH);
```

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```
digitalWrit  
e(7,HIGH);  
}
```

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//Buzzer For ultrasonic Sensor

```
if(dis>=100)
{
    for(int i=0; i<=30000; i=i+10)
    {
        tone(12,i)
        ;
        delay(100
        0);
        noTone(1
        2);
        delay(100
        0);
    }
}
```

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OUTPUT:

