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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)
         {
          digitalWrit
          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: