**ASSIGNMENT 4**

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**CODE:**

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(8,HIGH

);

digitalWrite(7,HIGH

);

}

//Buzzer For ultrasonic Sensor if(dis>=100) { for(int i=0; i<=30000; i=i+10)

{ tone(12,i); delay(1000); noTone(12); delay(1000);

}

}

