

## **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);  
}  
}
```

