

ASSIGNMENT 4

WRITE CODE AND CONNECTION IN WORKWI FOR THE ULTRASONIC SEWNNNSOR.

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);
}
}

```



