

#### ASSIGNMENT-4

DATE	30-OCT-2022
STUDENT NAME	M.AASHIMA
STUDENT ROLL NO	912619106001
MAXIMUM MARK	2 MARK

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);  
}  
}
```

