

ASSIGNMENT 4

Assignment Date	18 September 2022
Student Name	Elakiya GJ
Student Roll Number	193002026
Maximum Marks	2 Marks

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);

```

```

}

```

