

Assignment -4

Buzzer For Ultrasonic Sensor

Assignment Date	03 october 2022
Student Name	Pazhaniraj V
Student Roll Number	422519205030
Maximum Marks	2 marks

Source 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);

    }

}
```

