ASSIGNMENT 4

Assignment Date	18 September 2022
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Student Roll Number	193002307
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);
}
```