

Name : Deepak S

Roll No : 727719EUEC031

ASSIGNMENT – 4

ASSIGNMENT 4-BUZZER FOR ULTRASONIC SENSOR

PROGRAM:

```
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
        e(8,HIGH);
        digitalWrite
        e(7,HIGH);
```

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//Buzzer For ultrasonic Sensor

```
if(dis>=100)
{
    for(int i=0; i<=30000; i=i+10)
    {
        tone(12,i)
        ;
        delay(100
        0);
        noTone(1
        2);
        delay(100
        0);
    }
}
```

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OUTPUT:

