**ASSIGNMENT – 4**

**ASSIGNMENT 4-BUZZER FOR ULTRASONIC SENSOR**

**PROGRAM:**

intt=2;

inte=3;

voidsetup()

{

Serial.begin(9600);pinMode(t,OUTPUT);pinMode(e,INPUT);pinMode(12,OUTPUT);

}

voidloop()

{

//ultrasonic sensordigitalWrite(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 Sensorif(dis>=100)

{

for(inti=0;i<=30000;i=i+10)

{

tone(12,i);delay(1000);noTone(12);delay(1000);

}

}



**OUTPUT:**