Assignment-1 BATCH NO:B9-3A5E

Assignment Date	09 September 2022
Student Name	Akilan K
Student Roll Number	962219205006

Circuit Design V IoT-B9-3A5E(Evening Session)-Day-3 Ľ | 💯 🙏 ☐ tinkercad.com/things/ioAfGXB44ev-magnificent-robo/editel?tenant=circuits œ 🕙 wifi 🙏 Andromo Easy Start 📋 Education brand Magnificent Robo All changes saved Simulator time: 00:00:00.956 1 (Arduino Uno R3) ▼ **Ultrasonic Distance Sensor** int e=3;
int b=10; How the debugger works int time; int distance; 1. Add breakpoints by clicking on the line void setup() 2. Hover over the variables while paused to see their value. pinMode(8,OUTPUT); pinMode(3,INPUT);
pinMode(4,OUTPUT);
pinMode(10,OUTPUT); 3. Use the buttons above to resume simulation or step one line at a time. Serial.begin(9600); 16 void loop() Serial Monitor Distance= 146 Send Clear へ 🗐 嘱 🗘)) 🦟 ENG 22-09-2022

Program:

```
int t=4;
int e=3;
int b=10;
int time;
int distance;
void setup()
{
   pinMode(8,OUTPUT);
   pinMode(3,INPUT);
   pinMode(4,OUTPUT);
   pinMode(10,OUTPUT);
   Serial.begin(9600);
}
void loop()
{
```

```
digitalWrite(t, HIGH);
delayMicroseconds(10);
digitalWrite(t, LOW);
delayMicroseconds(10);
time=pulseIn(e,HIGH);
distance=(time*0.034)/2;
if(distance<=100)
 Serial.print("Distance= ");
 Serial.println(distance);
 digitalWrite(8,HIGH);
 delay(10);
 digitalWrite(10,LOW);
 delay(10);
else
 Serial.print("Distance=");
 Serial.println(distance);
 digitalWrite(8,LOW);
 delay(10);
 digitalWrite(10,HIGH);
 delay(10);
```