Assignment -1
BATCH NO :B9-3A5E

Assignment Date	09 September 2022
Student Name	Ajith B
Student Roll Number	962219205003

Circuit Design
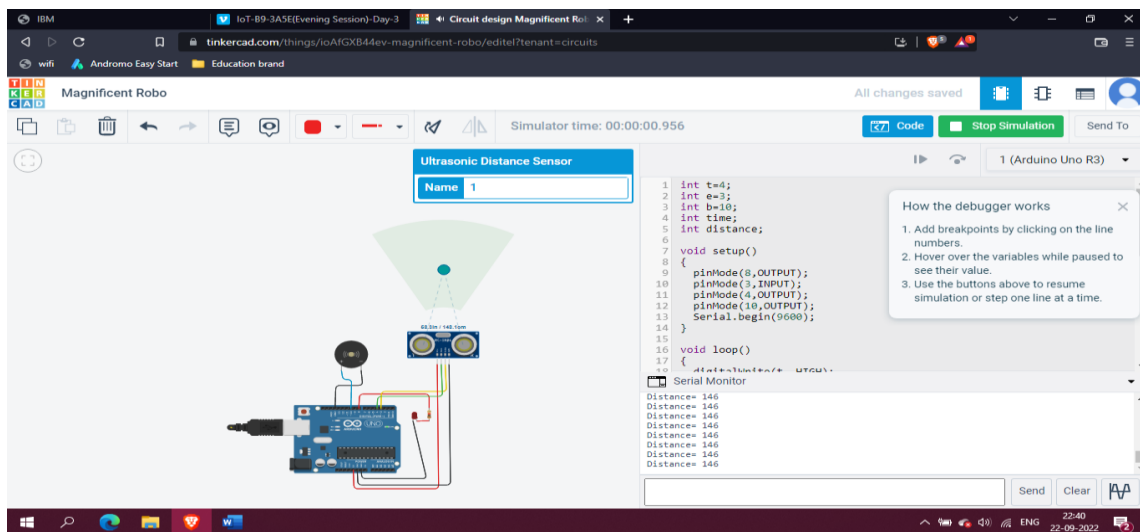
Program:

int t=4;

int e=3;

int b=10;

int time;

int distance;

void setup()

{

```arduino
  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);
  }
}
```