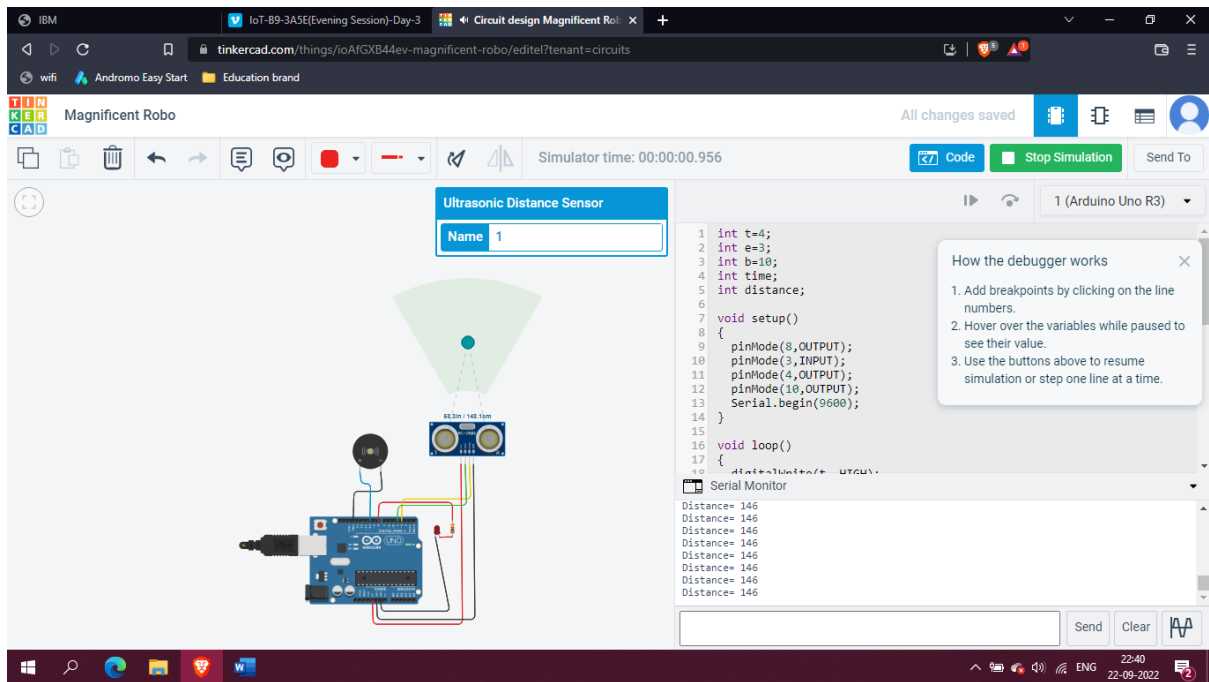


Submitted By : KARTHIK N

## SMART HOME APPLIANCE FOR DOOR

### Circuit Design



### 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);  
}  
  
}
```