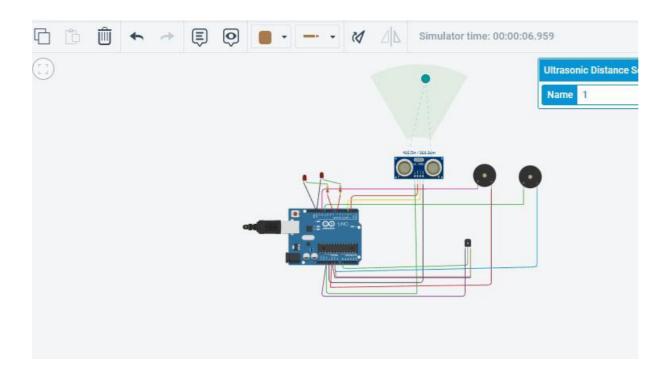
Assignment -1

Tinker Cad

Assignment Date	19 September 2022
Student Name	Ms. AKASHNI
Student Roll Number	713519CEEC003
Maximum Marks	2 Marks

Question-1:

Smart Home Automation



Code:

```
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(8,HIGH);
    digitalWrite(7,HIGH);
  //Buzzer For ultrasonic Sensor
  if(dis>=100)
  for(int i=0; i<=30000; i=i+10)
 tone(12,i);
  delay(1000);
  noTone(12);
  delay(1000);
  }
  }
    //Temperate Sensor
  double a= analogRead(A0);
  double t=(((a/1024)*5)-0.5)*100;
  Serial.print("Temp Value: ");
  Serial.println(t);
  delay(1000);
```

```
if(t>=100)
   digitalWrite(8,HIGH);
   digitalWrite(7,HIGH);
 }
 //Buzzer for Temperature Sensor
 if(t>=100)
 for(int i=0; i<=30000; i=i+10)
 tone(12,i);
 delay(1000);
 noTone(12);
 delay(1000);
 }
 }
  //LED OFF
 if(t<100)
   digitalWrite(8,LOW);
   digitalWrite(7,LOW);
 }
}
```