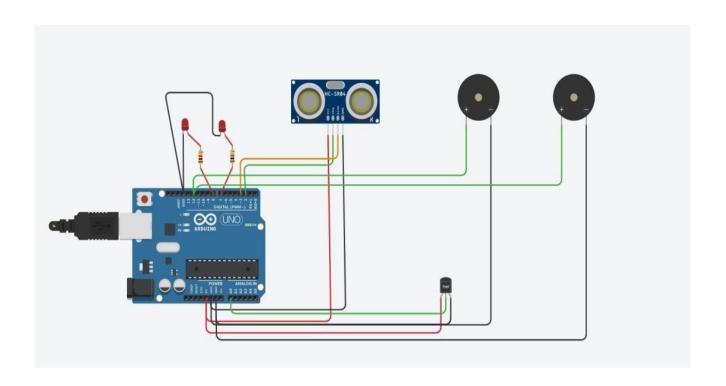
NAME : TAMILSELVAN.S

ROLL NO: 20L419

TOPIC: Home Automation using Arduino

OUTPUT: -



Assignment-1

```
Code:-
int t=2; int e=3;
void setup()
      Serial.begin(9600); pinMode(t,OUTPUT); pinMode(e,INPUT);
      pinMode(12,OUTPUT);
void loop()
      digitalWrite(t,LOW);
     digitalWrite(t,HIGH); delayMicroseconds(10); digitalWrite(t,LOW);
     float dur=pulseln(e,HIGH); float dis=(dur*0.0343)/2;
     Serial.print("Distance is: ");
     Serial.println(dis);
if(dis>=100)//(in terms of centimeter)
{
      digitalWrite(8,HIGH); digitalWrite(7,HIGH);
if(dis > = 100)
      for(int i=0; i<=30000; i=i+10)
```

```
{
      tone(12,i); delay(1000); noTone(12);
      delay(1000);
}
double a= analogRead(A0); double t=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value: "); Serial.println(t);
delay(1000);
//LED ON
if(t>=100)//(in terms of celsius)
      digitalWrite(8,HIGH); digitalWrite(7,HIGH);
if(t>=100)
for(int i=0; i<=30000; i=i+10)
      tone(12,i); delay(1000); noTone(12); delay(1000);
}
if(t<100)
      digitalWrite(8,LOW); digitalWrite(7,LOW);
```