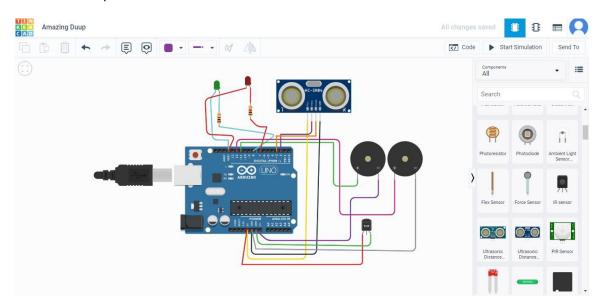
ASSIGNMENT 1

NAME: KRISHNAKUMAR C

Tincarcard Output:



CODE FOR SIMULATION:

```
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=pulseIn(e,HIGH);
  float dis=(dur*0.0343)/2;
  Serial.print("Distance is: ");
  Serial.println(dis);
  if(dis>=100)
  {
     digitalWrite(87,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);
  if(t>=100)
  {
     digitalWrite(8,HIGH);
     digitalWrite(7,HIGH);
  }
  if(if t>=100)
  {
     for(int i=0;i<=30000;i=i+10)
     {
       tone(12,i);
       delay(1000);
       noTone(112);
       delay(1000);
    }
  }
```

```
if(t<100)
  {
    digitalWrite(8,LOW);
    digitalWrite(7,LOW);
  }
}
```