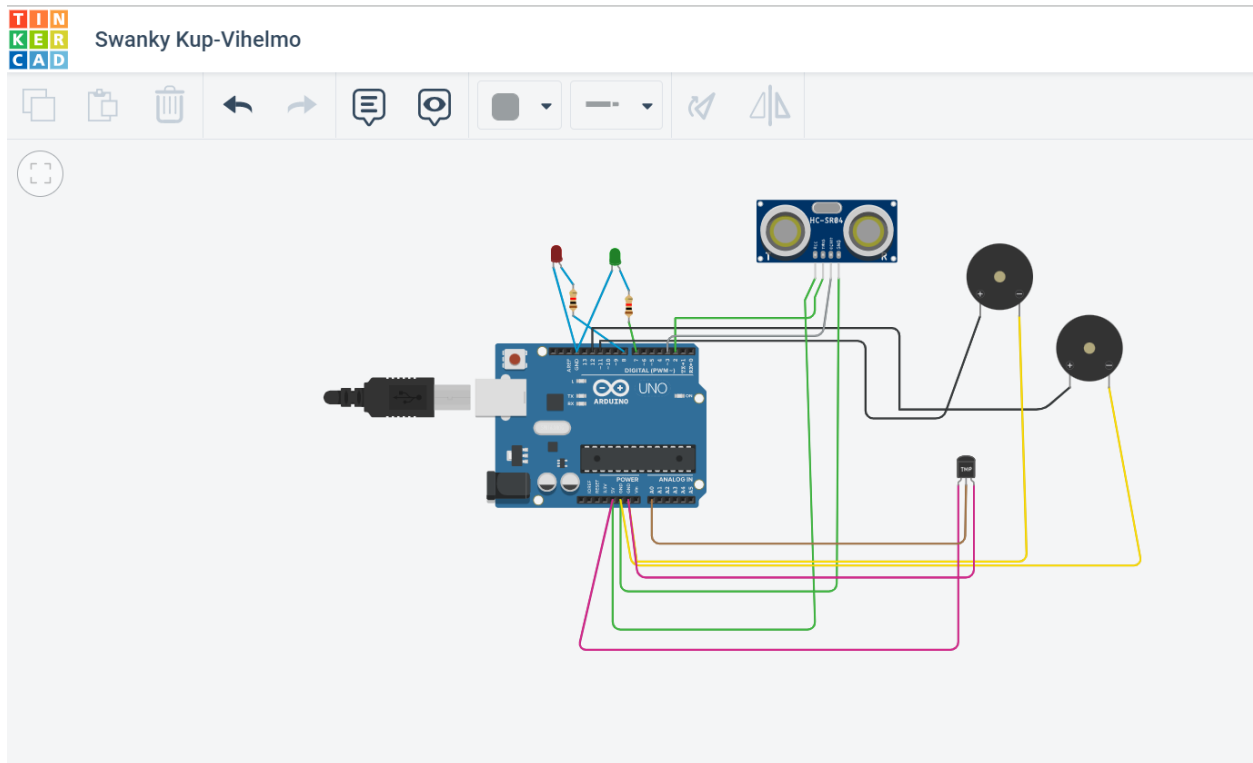


ASSIGNMENT-1

NAME :DHANUSRIYA A S

IMAGE:



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()
{
    //FOR 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);

    //FOR LED ON//

    if(dis>=100)
    {
        digitalWrite(87,HIGH);
        digitalWrite(7,HIGH);
    }

    //FOR BUZZER - ULTRASONIC SENSOR//

    if(dis>=100)
    {
        for(int i=0;i<=30000;i=i+10)
        {
            tone(12,i);

```

```

    delay(1000);

    noTone(12);

    delay(1000);
}
}

//FOR TEMPERATE SENSOR//

double a = analogRead(A0);

double t=((a/1024)*5)-0.5)*100;

Serial.print("Temp Value: ");

Serial.println(t);

delay(1000);

//FOR LED ON//

if(t>=100)

{

    digitalWrite(8,HIGH);

    digitalWrite(7,HIGH);

}

//FOR BUZZER - TEMPERATE SENSOR//

if(if t>=100)

{

    for(int i=0;i<=30000;i=i+10)

    {

        tone(12,i);

        delay(1000);

        noTone(112);

        delay(1000);

```

```
    }  
  }  
  
  //FOR LED OFF//  
  if(t<100)  
  {  
    digitalWrite(8,LOW);  
    digitalWrite(7,LOW);  
  }  
}
```