# AAA COLLEGE OF ENGINEERING AND TECHNOLOGY,SIVAKASI

Department of Electronics and Communication Engineering

PROJECT TITLE: Smart Farmer – IOT Enabled Smart Farming Application

**ASSIGNMENT 1**

**Topic**: Assignment on home automation using Arduino

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# Code:-

int t=2;inte=3;

voidsetup()

{

Serial.begin(9600);pinMode(t,OUTPUT);pinMode(e,INPUT);pinMode(12,OUTPUT);

}

voidloop()

{

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)//(intermsofcentimeter)

{

digitalWrite(8,HIGH);digitalWrite(7,HIGH);

}

if(dis>=100)

{

for(inti=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);

//LEDON

if(t>=100)//(intermsofcelsius)

{

digitalWrite(8,HIGH);digitalWrite(7,HIGH);

}if(t>=100)

{

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

{

tone(12,i);delay(1000);noTone(12);delay(1000);

}

}

if(t<100)

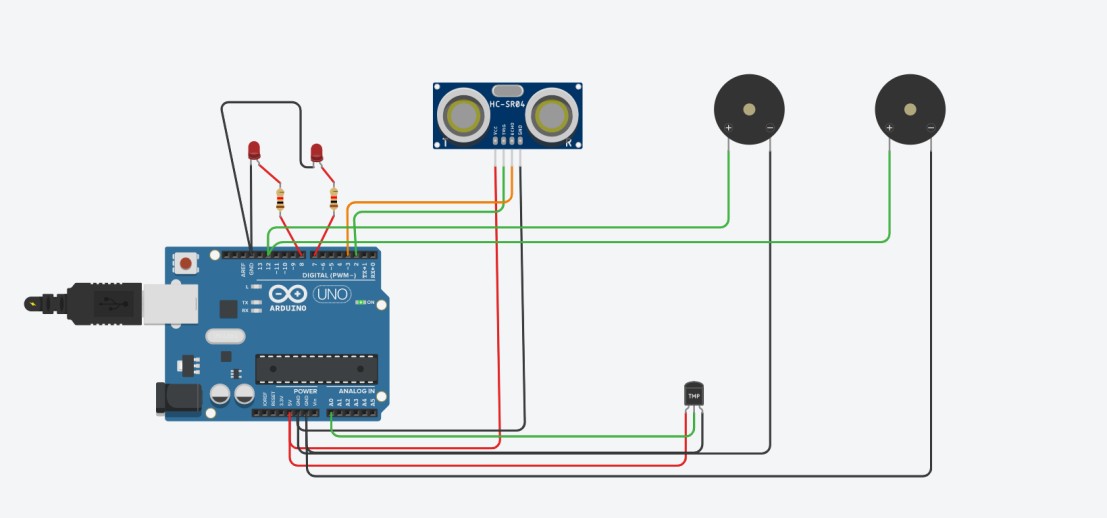
{

digitalWrite(8,LOW);digitalWrite(7,LOW);

}

}

**OUTPUT:-**



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