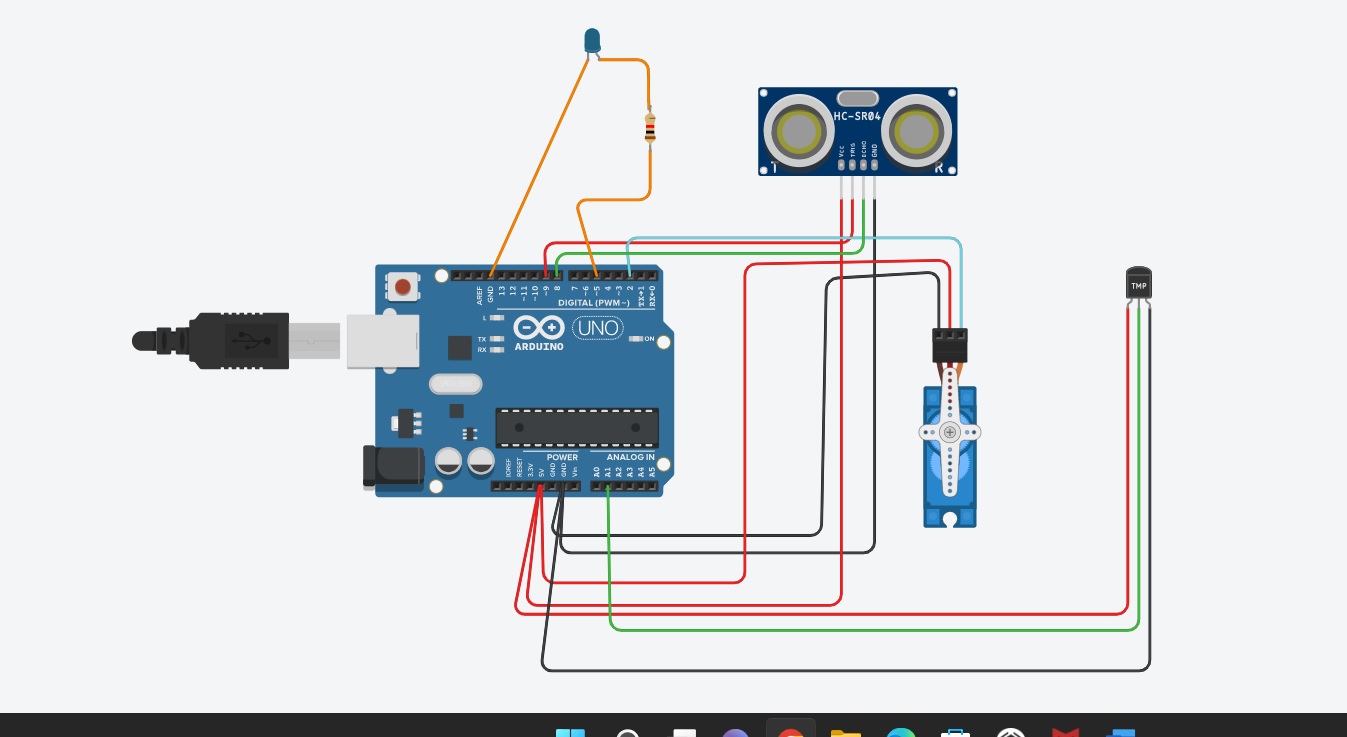
CIRCUIT DIAGRAM:

**

Code:

#include<Servo.h>

Servo myServo;

int t =9;

int e =8;

long time=0;

long dist=0;

void setup()

{

myServo.attach(2);

Serial.begin(9600);

pinMode(e,INPUT);

pinMode(t,OUTPUT);

pinMode(5,OUTPUT);

}

void loop()

{

digitalWrite(t,LOW);

delay(100);

digitalWrite(t,HIGH);

delay(100);

digitalWrite(t,LOW);

float time = pulseIn (e, HIGH);

float dist = time\*0.034/2;

double a=analogRead(A1);

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

Serial.print("temp value:");

Serial.println(tem);

if(dist<=300 || dist>=0)

{

{

myServo.write(0);

delay(500);

myServo.write(30);

delay(500);

myServo.write(60);

delay(500);

myServo.write(90);

delay(500);

myServo.write(120);

delay(500);

myServo.write(160);

delay(500);

myServo.write(180);

delay(500);

}

digitalWrite(5,HIGH);

}

else

{

Serial.println("out of boundary");

}

{

myServo.write(0);

}

}