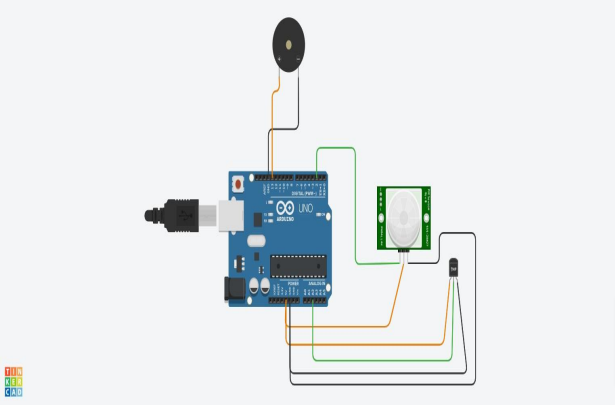
ASSIGNMENT-1

NAME : Sharmila R

COLLEGE : MRK Institute Of Technology

Create circuit with Piezo alarm, PIR sensor, tmp sensor with below functionalities:

1. Alarm should sound in one manner if temp is above 60 C
2. Alarm should sound with another frequency if motion is detected in PIR sensor



ARDUINO UNO CODE

void setup()

{

Serial.begin(9600);

pinMode(2,INPUT);

pinMode(12,OUTPUT);

}

void loop()

{

int motion=digitalRead(2);

if(motion==1){

Serial.println("Motion detected");

tone(12,10);

delay(1000);

noTone(12);

delay(1000);

}

else{

Serial.println("No motion");

}

double data=analogRead(A2);

double n=data/1024;

double volt=n\*5;

double off=volt-0.5;

double temperature=off\*100;

Serial.print("Temperature data: "); Serial.println(temperature); if(temperature>60.00)

{

tone(12,100);

delay(500);

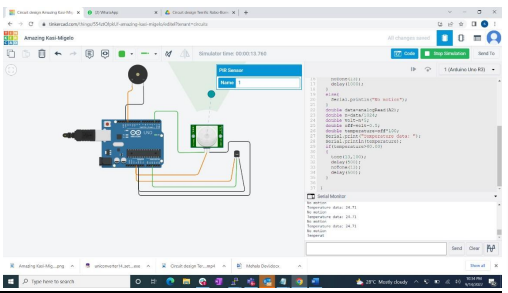
noTone(12);

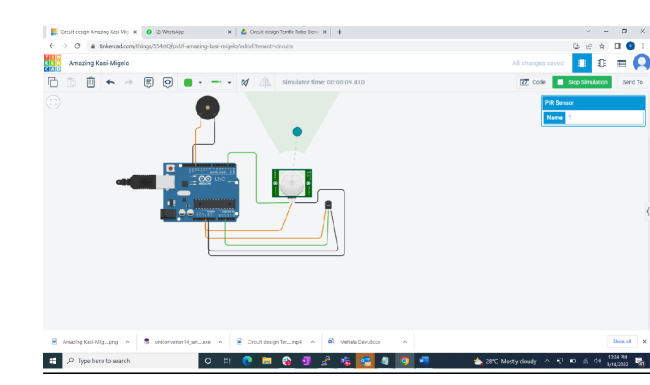
delay(500);

}

}

Output:





SIMULATION LINK:

<https://drive.google.com/file/d/1-dRYakLouwxKVRgXf0FD2r6dKPEIbZWh/view?usp=drivesdk>