ASSIGNMENT - 1

**Name**: ROSHNI B

**College** : Sona College Of Technology

**Department** : CSE

**Create a circuit with Piezo alarm, PIR sensor, temp sensor with below functionalities:**

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

**CODING:**

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);

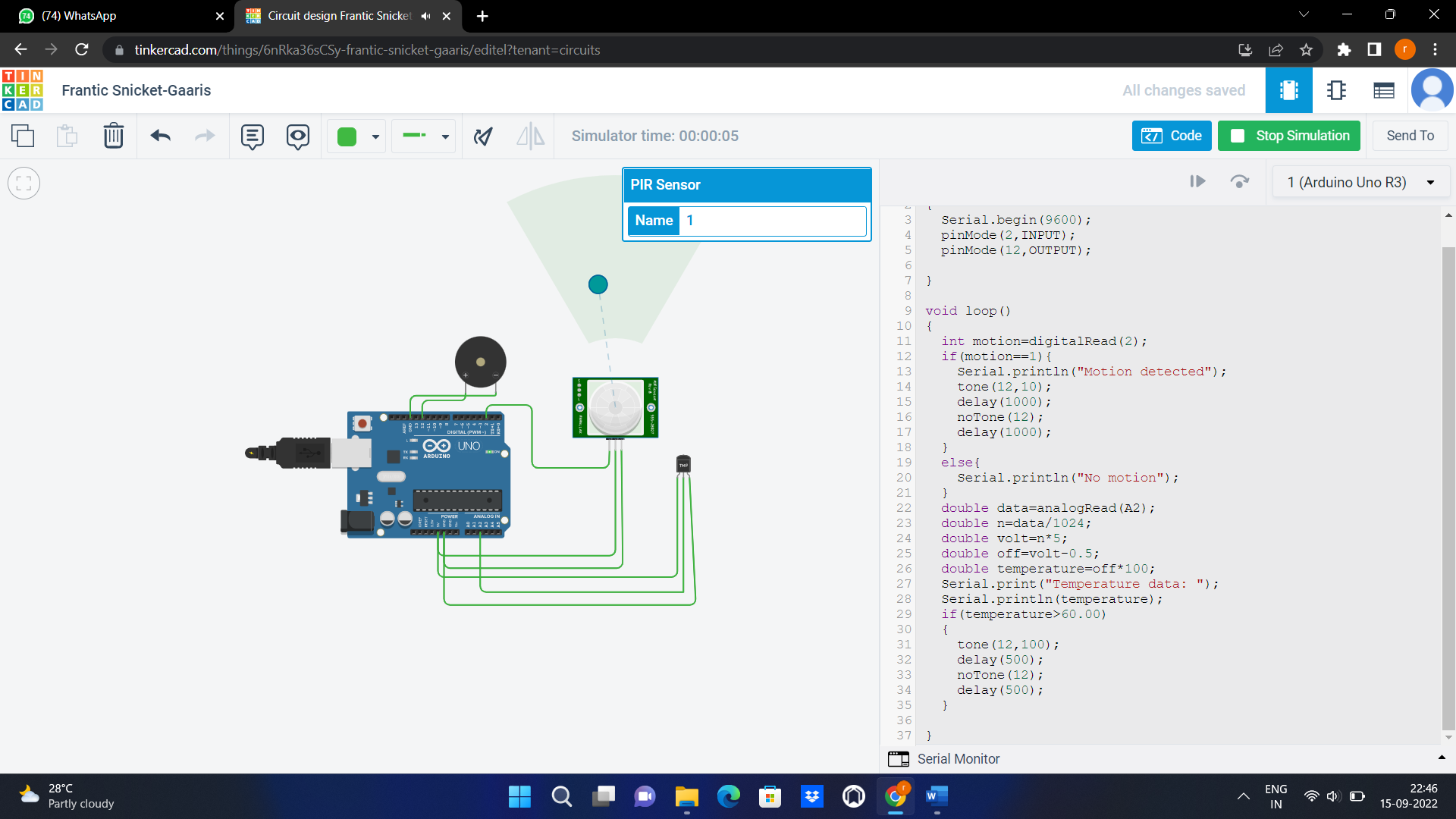
}

}A screenshot of a computer

Description automatically generated

OUTPUTS

A screenshot of a computer

Description automatically generated

SIMULATION LINK :

<https://drive.google.com/file/d/127HlOvXwOzgESeqpkbOR6zfHCuVzshc2/view?usp=drivesdk>