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**Date: 13.09.2022**

**ASSIGNMENT – 1**

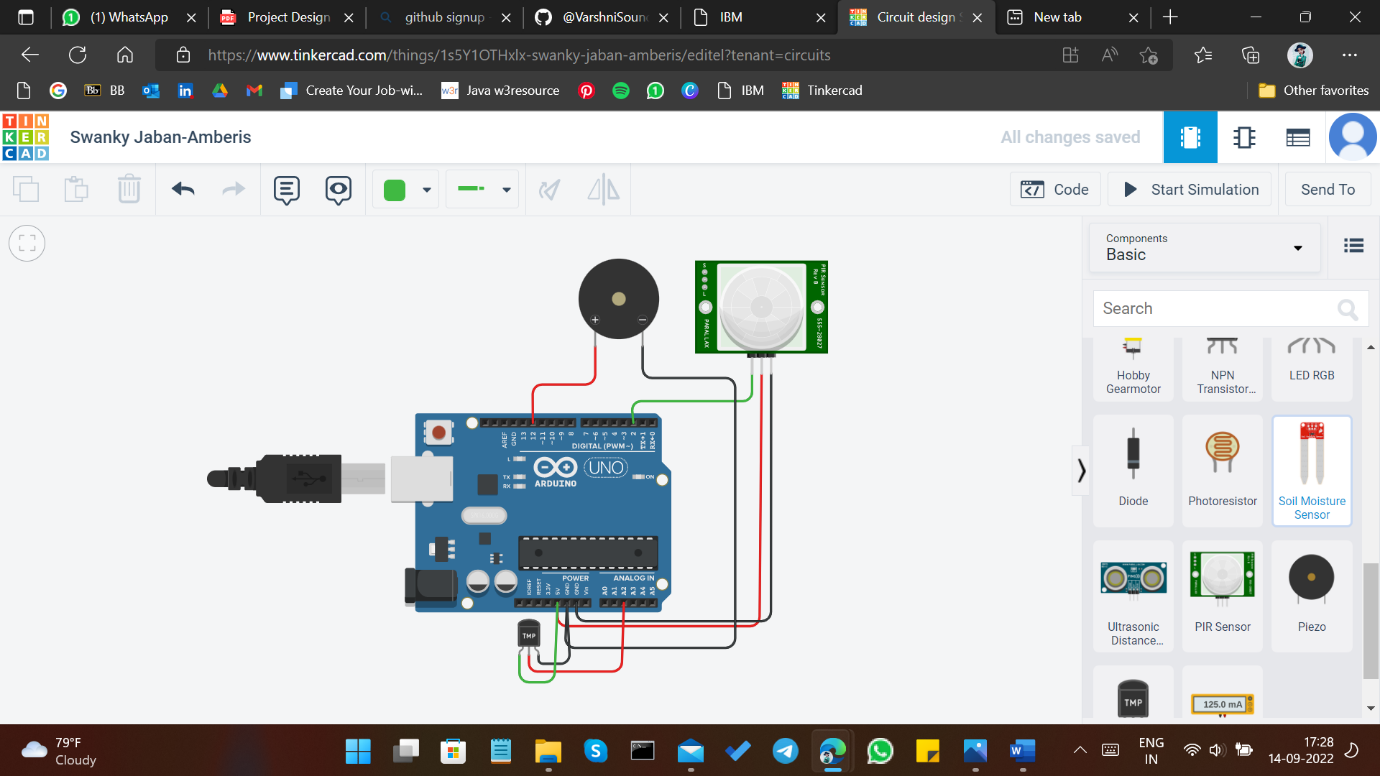
**QUESTION:**

Please create circuit 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.

**SOLUTION:**

**CIRCUIT CONNECTION:**



**PROGRAM:**

void setup(){

Serial.begin(9600);

pinMode(2,INPUT);

}

void loop(){

int motion=digitalRead(2);

double data=analogRead(A2);

double n=data/1024;

double volt=n\*5;

double off=volt-0.5;

double temp=off\*100;

if(temp>60){

Serial.println("Temperature is greater than 60");

tone(12,200);

delay(2000);

}

if(motion == 1){

Serial.println("Motion is detected");

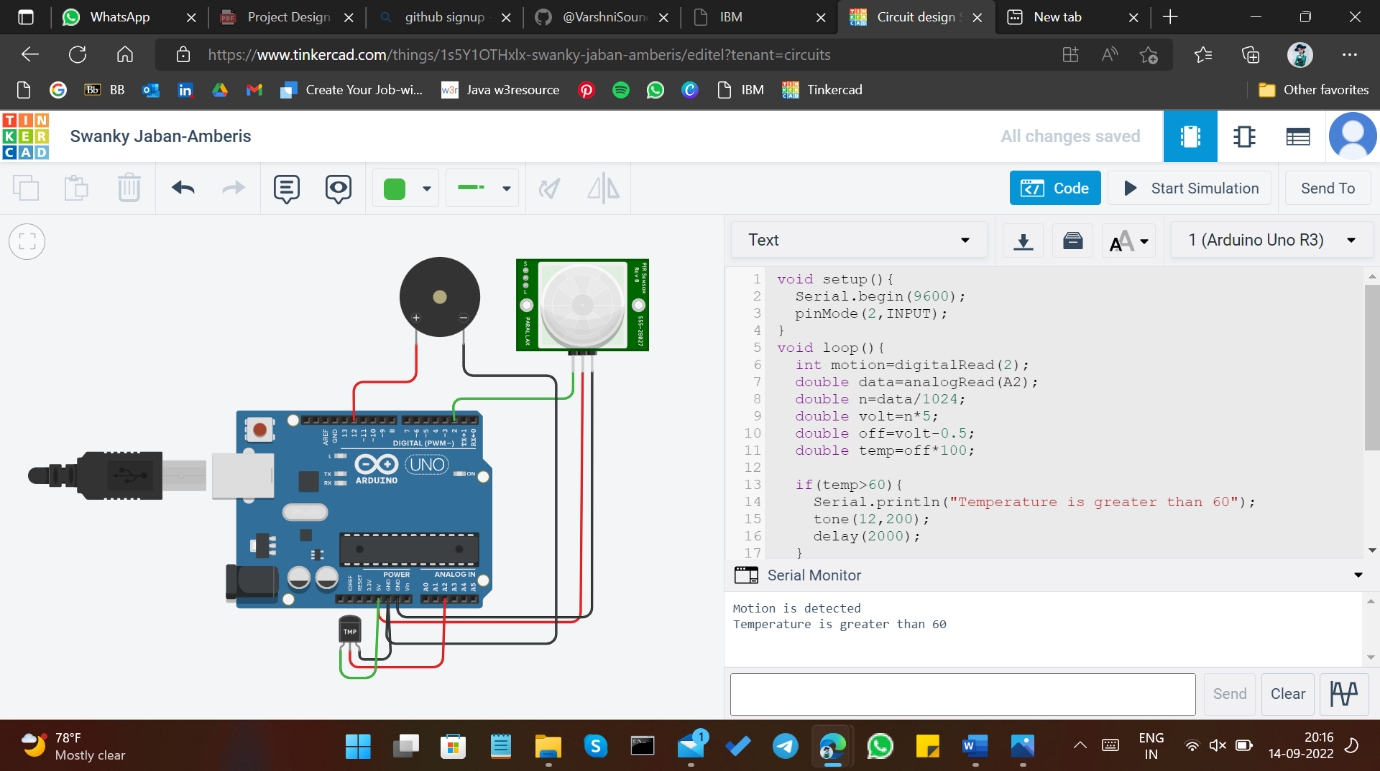
tone(12,100);

delay(2000);

}

}

**OUTPUT:**

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