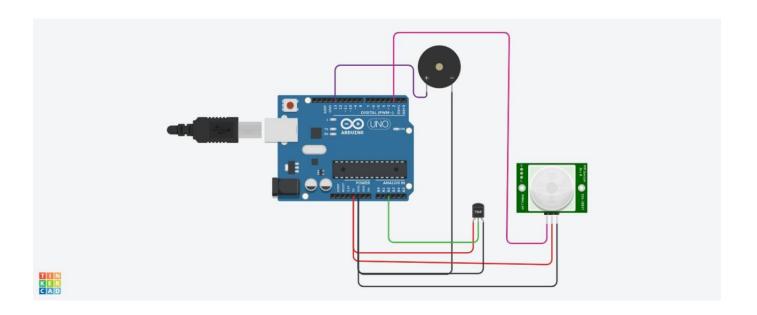
ASSIGNMENT-1

Question:

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

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

Circuit Diagram:



Coding:

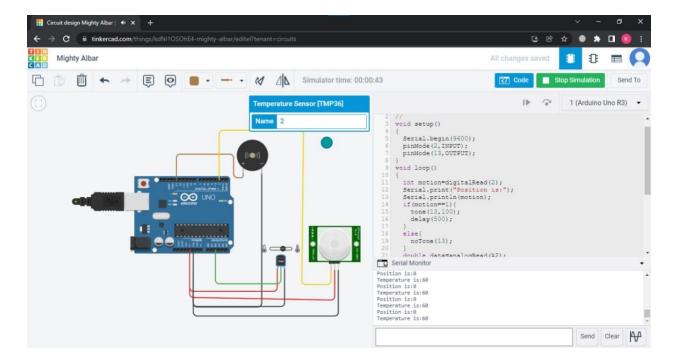
```
void setup()
  Serial.begin(9600);
  pinMode(2,INPUT);
  pinMode(13,OUTPUT);
void loop()
  int motion=digitalRead(2);
  Serial.print("Position is");
  Serial.println(motion);
  if (motion==1) {
    tone(13,100);
    delay(500);
  }
  else{
    noTone (13);
  double data=analogRead(A2);
  double n=data/1024;
  double volt=n*5;
  double off=volt-0.5;
  int temp=off*100;
```

```
Serial.print("Temperature is:");
Serial.println(temp);
if(temp==60){
   tone(13,400);
   delay(500);
}
else{
   noTone(13);
}
```

OutPut:

Temperature above

60 C



Motion detection in PIR sensor

