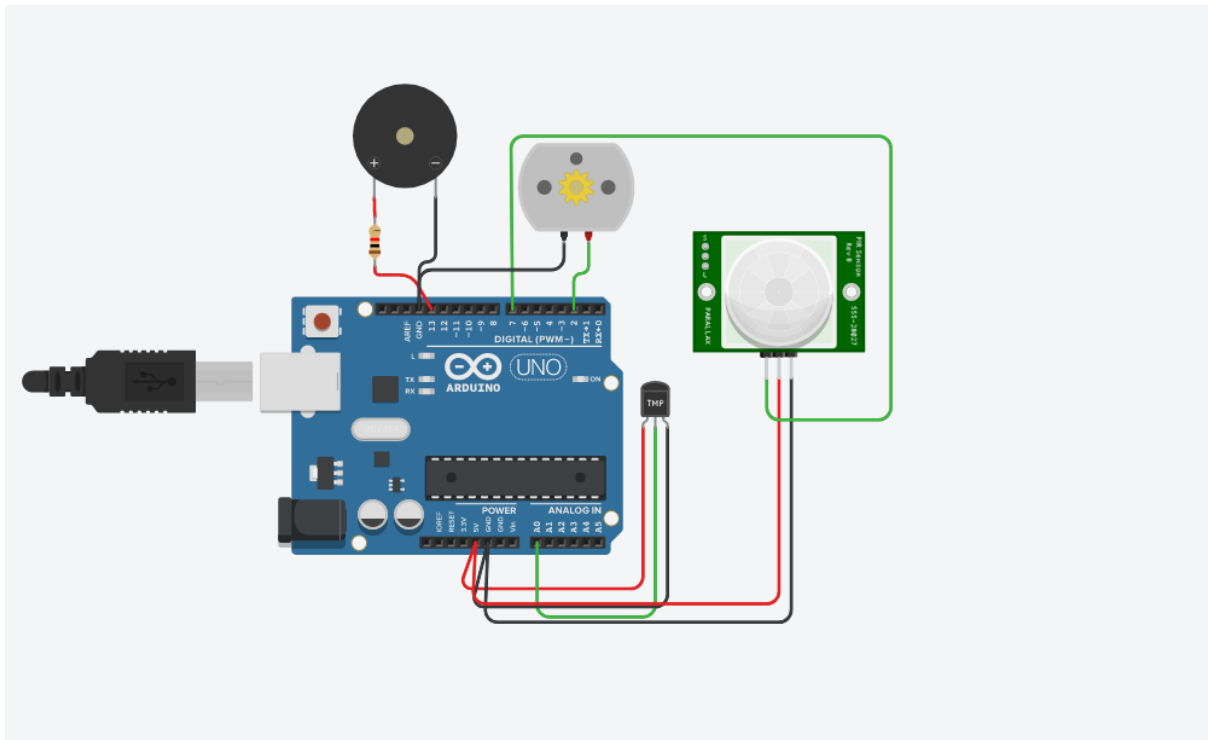


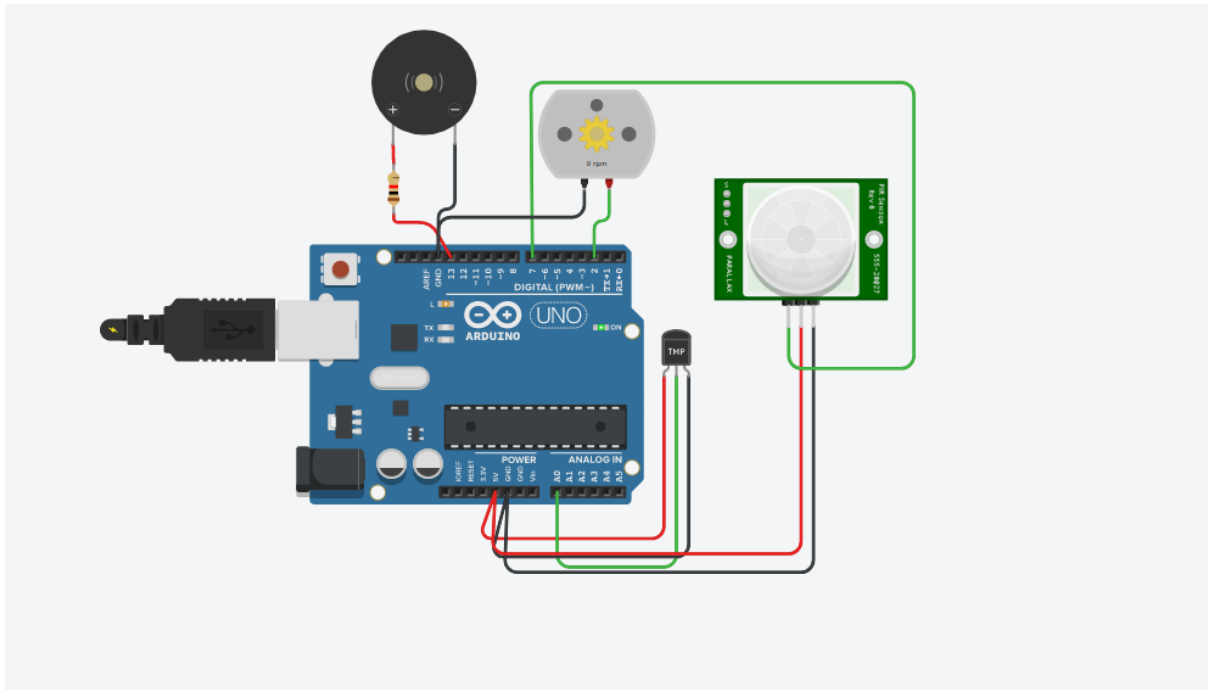
TITLE: INTERFACING PIEZO ALARM WITH PIR AND TEMPERATURE SENSOR

CIRCUIT DIAGRAM:

BEFORE SIMULATION:



AFTER SIMULATION:



CODE:

```
void setup()
{
  Serial.begin(9600);
  pinMode(13,INPUT);
  pinMode(12,OUTPUT);
}

void loop()
{
  double data=analogRead(A2);
  double n=data/1024;
  double volt=n*5;
  double off=volt-0.5;
  double temperature=off*100;
```

```
int motion=digitalRead(13);
for(int freq=4;freq<=5;freq++)
{
    if(temperature>=60)
    {
        Serial.println("Temperature is above 60");
        tone(12,freq);
        delay(100);
    }
    else
    {
        Serial.println("Temperature is below 60");
        noTone(12);
    }
}
for(int freq=2;freq<=3;freq++)
{
    if(motion==1)
    {
        Serial.println("Motion Detected");
        tone(12,freq);
        delay(200);
    }
    else
```

```
{  
Serial.println(" No Motion");  
noTone(12);  
}  
}  
}
```