create circuit Piezo alarm ,PIR sensor ,tempSensor 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.

Input Circuit Connection Screenshots:

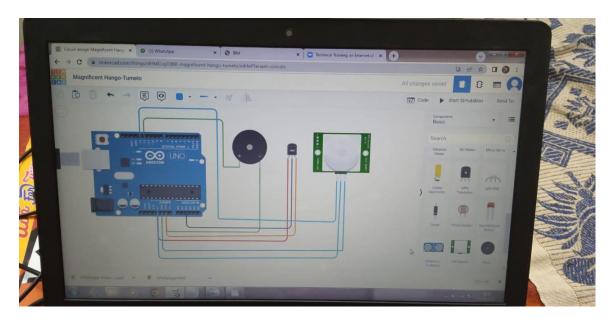


Fig1.Circuit with Piezo alarm, PIR sensor, temp Sensor

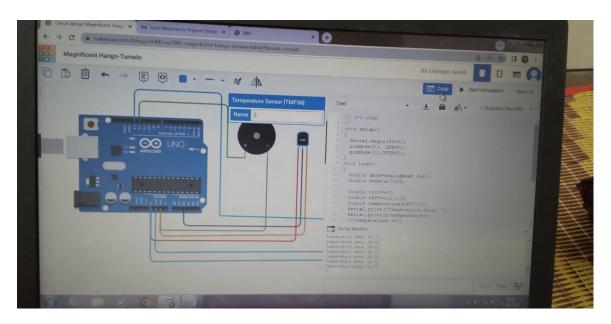


Fig.2.Circuit with an Code

```
Program:

//C++ 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;
  Serial.print("Temperature data: ");
  Serial.println(temperature);
  if(temperature >60)
  {
     tone (12,250);
     delay(500);//Wait for 1000 millisecond(s)
     noTone(12);
  }
  int motion=digitalRead(13);
  if (motion==1)
  {
     Serial.println("Motion detected");
     tone (12,100);
     delay(1000);//Wait for 1000 millisecond(s)
     noTone(12);
  }
}
```