Date: 12.09.2022 ASSIGNMENT 1

Create a circuit with piezo alarm, PIR sensor, Temperature sensor consisting following features

- 1. Alarm when temperature is above 60 degree celcius, and
- 2. Alarm when motion detected using Passive Infrared sensor

PROGRAM:

```
int pir, buzz;float
temp; void setup()
   pir = 3;
   buzz = 12; pinMode(pir,
   INPUT); pinMode(buzz,
   OUTPUT); Serial.begin(9600);
}
void loop()
   //Motion Monitoring
   int motion = digitalRead(pir);if(motion ==
   1)
     tone(buzz,50);
     Serial.println("Motion Status: Detected");delay(50);
   }
   else
     noTone(buzz);
     Serial.println("Motion Status: Not Detected");
   //Temperature Measurement float data =
   analogRead(A4);
   float temp = (((data/1024.0)*5)*100);
```

```
Serial.print("Temperature is:");
Serial.println(temp); if(temp>60)
{
    tone(buzz,200,200);
    delay(500);
}
else{
    noTone(buzz);
}
```

OUTPUT:



