

Assignment -1
IOT Assignment

Assignment Date	19 September 2022
Student Name	Hari Prasath.S
Student Roll Number	111519106046
Maximum Marks	2 Marks

Question-1:

Create circuit with piezo alarm, PIR Sensor, temperature sensor with functionalities

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

Solution:

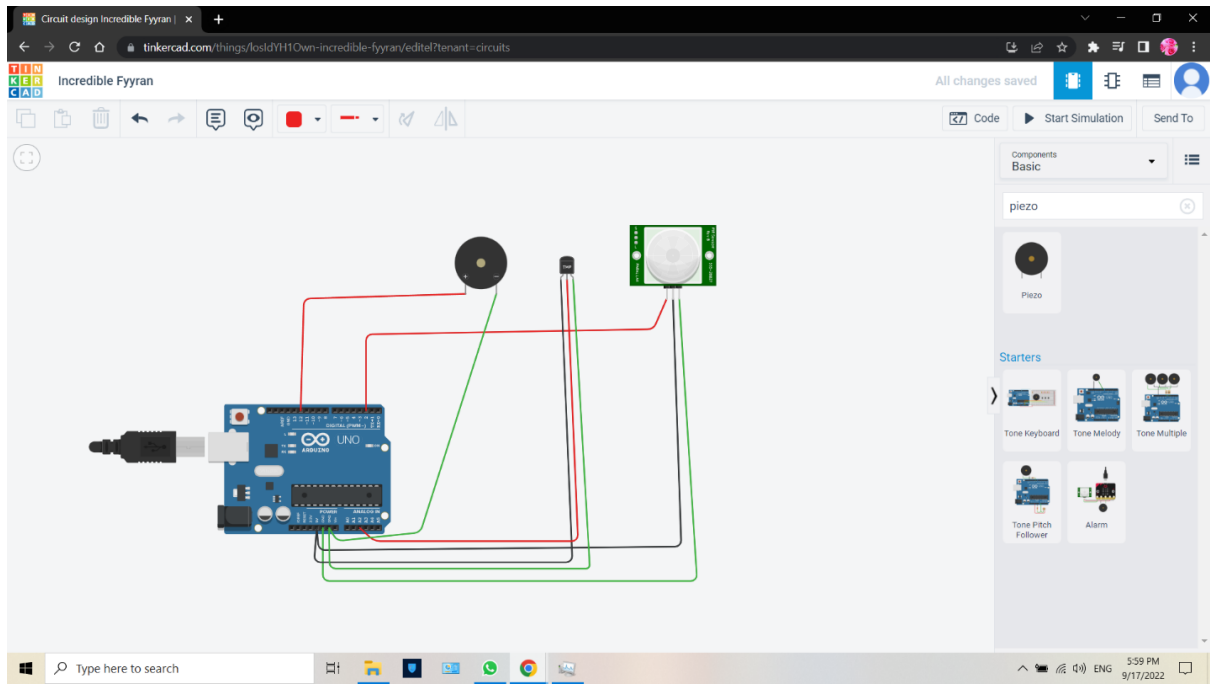
```
// C++ code
//
void setup()
{
  Serial.begin(9600);
  pinMode(2, INPUT);
  pinMode(12, OUTPUT);
}

void loop()
{
```

```
int motion=digitalRead(2);
if(motion==1)
{
    Serial.println("Motion is Detected !");
    tone(12,10);
    delay(1000);
    noTone(12);
    delay(3000);
}
else
{
    Serial.println("No Motion!!!");
    delay(1000);
}
double data=analogRead(A2);
double n=data/1024;
double voltage=n*5;
double offsetvol=voltage-0.5;
double temp=offsetvol*100;
if(temp>60)
```

```
{  
    Serial.println("Temperature higher than 60 degrees  
!!");  
    Serial.println(temp);  
    tone(12,10);  
    delay(1000);  
    noTone(12);  
    delay(3000);  
}  
else  
{  
    Serial.println("Temperature lesser than 60 degrees  
!!");  
    Serial.println(temp);  
    delay(1000);  
}  
}
```

CIRCUIT DIAGRAM



SCHEMATIC DESIGN:

