Assignment-1

Arduino Interfacing with Temp sensor, PIR Sensor and Piezo buzzer

Assignment Date	19 September 2022
Student Name	Kowsik M
Student Roll Number	111519106076
Maximum Marks	2 Marks

Question-1:

Design Temperature and PIR Sensor based Buzzer alarm.

SOLUTION:

```
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);

 }
```

Assignment-1

Arduino Interfacing with Temp sensor, PIR Sensor and Piezo buzzer

}

OUTPUT: