## Assignment -1

## Arduino Interfacing

Assignment Date	19 September 2022	
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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 is greater than 60 degrees !");
   Serial.println(temp);
   tone(12,100);
   delay(1000);
   noTone(12);
   delay(3000);
 }
 else
 {
            Serial.println("Temperature is less than 60 degrees !!!");
   Serial.println(temp);
   delay(1000);
 }
}
            1 (Arduino Uno R3)
                                                                                               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)
                                                                                       10.89
No Motion !!!
Temperature is greater than 60 degrees !
266.41
No Motion !!!
No Motion !!!
Temperature is greater than 60 degrees !
141.41
```

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