## Assignment -1

## **Arduino Interfacing**

Assignment Date	20 September 2022
Student Name	Sakthivel S
Student Roll Number	111519106136
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);
}
}
```



