

**IBM-NALLAIYA THIRAN PROJECT**  
**UNIVERSITY COLLEGE OF ENGINEERING**  
**RAMANATHAPURAM**

**ASSIGNMENT-1**

**Preetha S**

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```
void setup()
{
  Serial.begin(9600);
  pinMode(A2,INPUT);
  pinMode(12,OUTPUT);
  pinMode(2,INPUT);
}
void loop()
{
  double data=analogRead(A2);
  double n=data/1024;
  double volt=n*5;
  double off=volt-0.5;
  double temperature=off*100;
  Serial.print("Temperature data: ");
  Serial.println(temperature);
  int motion=digitalRead(2);
  Serial.print("position is :");
  Serial.println(motion);
  if(motion==1){
    Serial.println("Motion detected");
    tone(12,1000);
    delay(2002);
  }
}
```

```

else{
Serial.println("No Motion");
noTone(12);
delay(200);
}
if(temperature >=60)
{
tone(12,3000);
delay(200);
}
else
{
noTone(12);
delay(200);
}

```

### Circuit Diagram:

