ASSIGNMENT 1

Home Automation Using Sensors

CODE:

```
void setup() {
Serial.begin(9600);
pinMode(2,INPUT);
pinMode(13,OUTPUT);
}
void loop() {
int motion=digitalRead(2);
double temp=analogRead(A4);
double x=temp/1024;
double volt=x*5;
double off =volt-0.5;
double temperature=off*100;
double deg= 50;
if (motion==1)
{
digitalWrite(13,HIGH);
delay(1000);
digitalWrite(13,HIGH);
delay(1000);
Serial.println("Motion is being detected");
} else {
digitalWrite(13,LOW);
Serial.println("Motion is not detected");
}if (temperature> deg)
digitalWrite(13,HIGH);
Serial.print("Temperature:");
Serial.println(temperature);
} else {
digitalWrite(13,LOW);
Serial.print("Temperature:");
Serial.println(temperature);
}
}
```

<u>OUTPUT</u>

