## Personal assistance for seniors who are self reliant

## **ASSIGNMENT 1**

# IBM ( NALAIYA THIRAN)

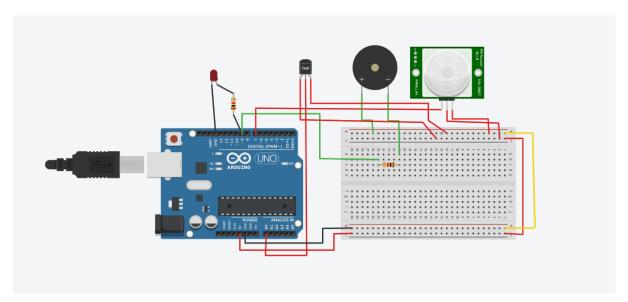
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**TOPIC: SMART HOME** 

## **CIRCUIT DIAGRAM:**



#### CODE:

constint buzzer = 9;

intsensePin = A0;

intsensorInput;

double temp;

#define pirPin 7

intcalibrationTime = 30;

long unsigned intlowIn;

long unsigned int pause = 5000;

booleanlockLow = true;

```
booleantakeLowTime;
intPIRValue = 0;
void setup(){
Serial.begin(9600);
pinMode(pirPin, INPUT);
pinMode(buzzer, OUTPUT);
}
void loop(){
sensorInput = analogRead(A0);
temp = (double)sensorInput / 1024;
temp = temp * 5;
temp = temp-0.5;
temp = temp * 100;
if(temp > 60){
tone(buzzer, 1000);
delay(1000);
noTone(buzzer);
delay(1000);}
Serial.print("Current Temperature: ");
Serial.println(temp);
PIRSensor();
}
void PIRSensor() {
if(digitalRead(pirPin) == HIGH) {
Serial.print("Motion Detected");
tone(buzzer, 2000);
delay(1000);
```

```
noTone(buzzer);
delay(1000);}
}
```

#### **OUTPUT:**

