

Personal assistance for seniors who are self reliant

ASSIGNMENT 1

IBM (NALAIYA THIRAN)

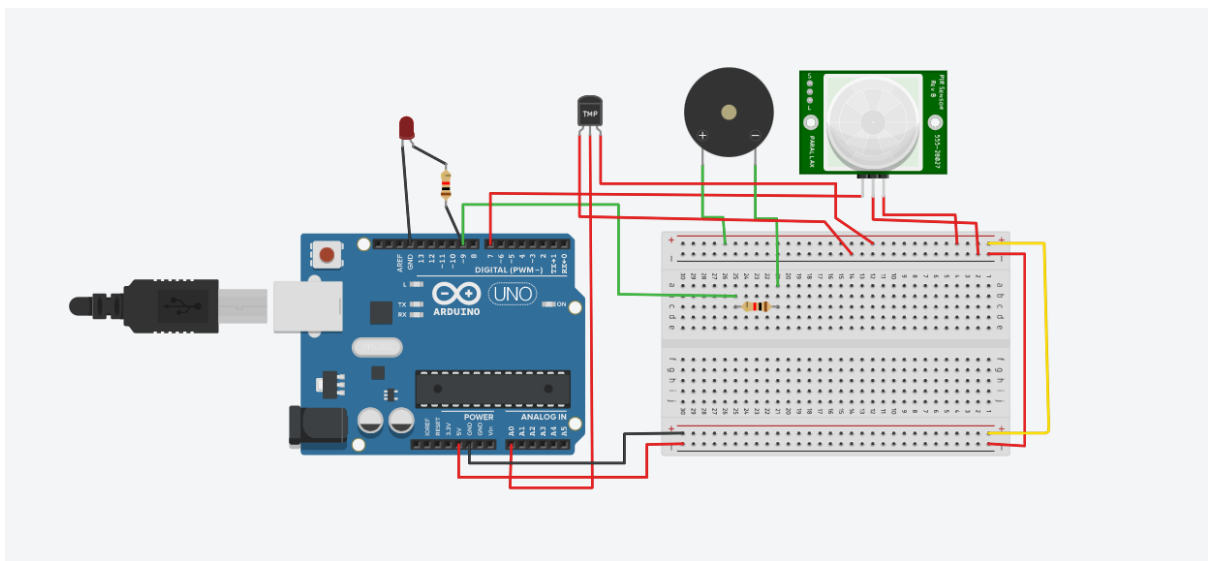
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TOPIC: SMART HOME

CIRCUIT DIAGRAM:



CODE:

```
const int buzzer = 9;
int sensorPin = A0;
int sensorInput;
double temp;
#define pirPin 7
int calibrationTime = 30;
long unsigned int lowIn;
long unsigned int pause = 5000;
boolean lockLow = true;
```

```

boolean takeLowTime;
int PIRValue = 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:

