

# Smart Home Automation -Project 1

```
int buzz=4;

int pir=7;

int echo=5;

int trigg=6;

int pir_led=12;

int us_led=13;

int time;

int dist;

void setup()
{
    Serial.begin(9600);

    pinMode(pir_led,OUTPUT);

    pinMode(us_led,OUTPUT);

    pinMode(buzz,OUTPUT);

    pinMode(pir,INPUT);

    pinMode(echo,INPUT);

    pinMode(trigg,OUTPUT);
}

void loop()
{
    if(digitalRead(pir)==HIGH){

        Serial.println("There is a person...");

        digitalWrite(pir_led,HIGH);

        delay(1000);
```

```

}

digitalWrite(pir_led,LOW);

digitalWrite(trigg,HIGH);

delayMicroseconds(10);

digitalWrite(trigg,LOW);

time=pulseIn(echo,HIGH);

dist=(time*0.034)/2;

if(dist<=100)

{

    Serial.println("A personNear...");

    digitalWrite(us_led,HIGH);

    tone(buzz,1000,1000);

    delay(1000);

}

else

{

    digitalWrite(us_led,LOW);

    noTone(0);

    delay(1000);

}

}

```

