

Smart Home Automation System

Assignment 1

```
int motor=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(motor,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);
```

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```
time=pulseIn(echo,HIGH);  
dist=(time*0.034)/2;  
if(dist<=100)  
{  
  Serial.println("A personNear...");  
  digitalWrite(us_led,HIGH);  
  digitalWrite(motor,HIGH);  
  delay(1000);  
}  
else  
{  
  digitalWrite(us_led,LOW);  
  digitalWrite(motor,LOW);  
  delay(1000);  
}  
}
```

