

SMART HOME

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DOOR BUZZER USING PIR SENSOR AND PUSH BUTTON

CODE

```
#include<Servo.h>

Servo s;

void setup()
{
    Serial.begin(9600);
    pinMode(4,INPUT);
    pinMode(12,OUTPUT);
    pinMode(2,INPUT);
    s.attach(8);
}

void loop()
{
    int p=digitalRead(4);
    Serial.println(p);
    if(p!=0)
    {
        for(int i=0;i<1000;i=i+10)
        {
            tone(12,i);
            delay(100);
            noTone(12);
```

```

delay(100);

int a=digitalRead(2);

if(a==0)
{
    for(i=0;i<=180;i++)
    {
        s.write(i);

        delay(100);
    }

    for(int j=0;j<=30000;j++)
    {
        int b=digitalRead(2);

        if(b==0)
        {
            for(int k=180;k>=0;k--)
            {
                s.write(k);

                delay(100);
            }

            break;
        }
    }

    break;
}

}
}

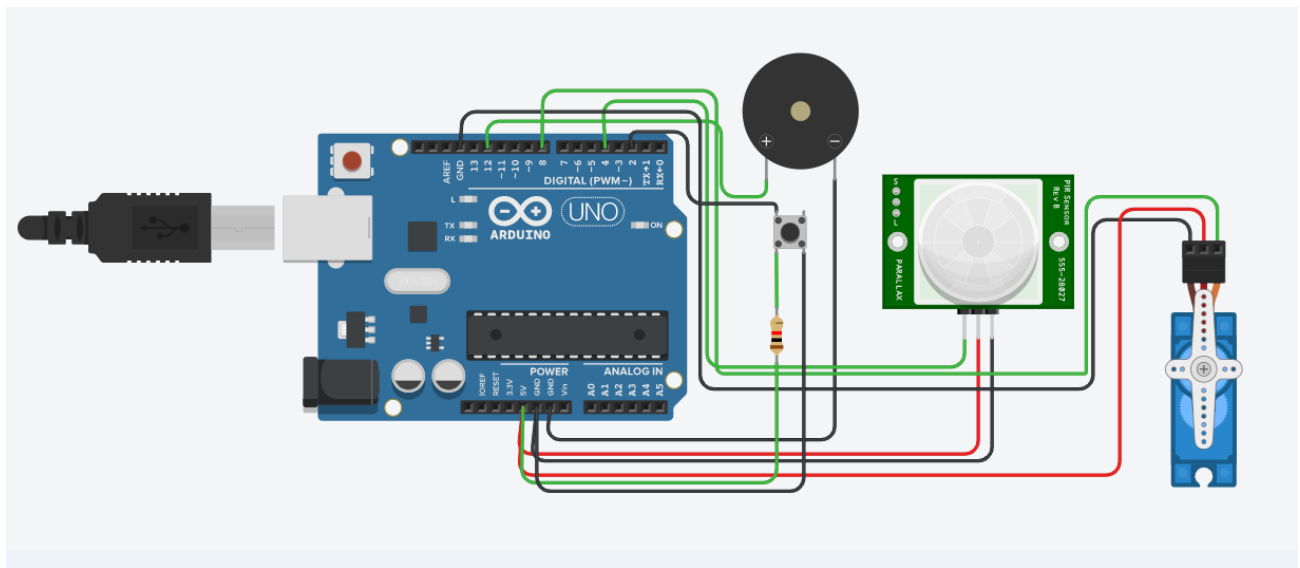
```

}

TINKERCAD LINK

<https://www.tinkercad.com/things/k1EjMJPDCBc-fantabulous-inari-blad/editel?sharecode=aa3JwhIMpPDe7NmSojjiTmvAhPbSNSFNmTgw2DYGmFY>

Figure:



When someone comes in front of door ,the PIR sensor detect the motion of a person and the buzzer starts to ring. When the button is turned ON the buzzer stops and the stereo motor starts to rotate and the door gets opened automatically. After a person comes into the home, the button would be pressed and the door get closed automatically again with the help of stereo motor.