

Source Code:

```
#include<Servo.h>

Servo s;

int v=0;

void setup()
{
  s.attach(3);

  Serial.begin(9600);

  pinMode(3,OUTPUT);

  pinMode(4,INPUT);

  pinMode(13,OUTPUT);
}

void loop()
{
  int a=digitalRead(4);

  Serial.println(a);

  digitalWrite(13,LOW);

  if (a==1)
  {
    Serial.println("Person Coming");

    Serial.println("open Door");

    digitalWrite(13,HIGH);

    for(v=0;v<=90;v=v+1)

      {
        s.write(v);

        delay(50);

      }

    for(v=90;v>=0;v=v-1)
```

```
{s.write(v);  
  delay(50);  
}  
}  
delay(1000);  
}
```

Output:

