int US1=0;

int US2=0;

int US1 = U1();

int US2 = U2();

delay(1000);

if (US1 == 1)

{

delay(1000);

int f = IN();

if (f == 1)

{

i++; //i counts the no of people enters in the room

}

}

else if (US2 == 1)

{

delay(1000);

int f = OUT();

if (f == 1)

{

i--; //this loop calculates the no of persons exiting the room

}

}

else

{

Serial.print(" No change in the system ");

}