The C Source Code

/* This program is written by Eng. Ladon Ahmed Bade Eljak*/
#include<stdio.h>
#include<conio.h>
#include<dos.h>
main()
{

    screen1:
    /* put all output devices off */
    outportb(0x378,0x00);
    /* title for the thesis */
    textmode(1);
    gotoxy(5,2);
    textcolor(WHITE);
    textbackground(RED);
    cprintf("\nLadon AHMED BADe ALJAK\n");
    gotoxy(5,4);
    cprintf("\nSUDAN UNIVERSITY of SECINES AND TECHNOLOGEY ");
    gotoxy(5,6);
    cprintf("\nMotion Detection System Project");
    textcolor(WHITE+BLINK);
    textbackground(BLUE);
    gotoxy(5,11);
    cprintf("\n start operation       ");
    struct date d;
    getdate(&d);
    printf("\n\n %d / %d / %d", d.da_day, d.da_mon,d.da_year);
    delay(5000);

    screen2:
clrscr();
textcolor(WHITE);
textbackground(BLUE);
gotoxy(5,15);
cprintf("\n ENTER THE COMMAND ");
delay(5000);
beg:
        /* initialisation */
        int x;
        x=inportb(0x379);
        x = x & 0xf8;
        x = x ^ 0x80;
        x = 0x78;
        /* check the value of x */
        if (kbhit()) goto finish;
        if ( x == 0xf8) goto vm125;/* the Vellman is detecting*/
        if ( x == 0x78) goto novm125; /*the Vellman is not detecting  */
        goto beg;

screen3:
        /* the Vellman is detecting */
vm125:
        outportb(0x378,0x07);
clrscr();
textmode(1);
gotoxy(5,15);
textcolor(WHITE+BLINK);
textbackground(RED);
cprintf("THE VELLMAN125 is DETECTING");
delay(5000);

screen4:
        /* the buzzer,lamp,lever are activated*/
clrscr();
textmode(1);
gotoxy(5,10);
textcolor(WHITE+BLINK);
textbackground(RED);
cprintf("THE BUZZER IS ON");
delay(5000);
gotoxy(5,14);
cprintf(" THE LAMP IS ON");
delay(5000);
gotoxy(5,18);
cprintf("THE LEVER IS ON");
delay(5000);
goto beg;

screen5:
/* the Vellman is not detecting */
novm125:
clrscr();
textmode(1);
gotoxy(5,20);
textcolor(WHITE+BLINK);
textbackground(GREEN);
cprintf("THE VELLMAN125 is NOT DETECTING");
delay(5000);
goto beg;
finish:
getch();
return(0);