

The C Source Code

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/* 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);
    printf("\nLadon AHMED BADE ALJAK");
    gotoxy(5,4);
    printf("\nSUDAN UNIVERSITY of SCIENCE AND TECHNOLOGY ");
    gotoxy(5,6);
    printf("\nMotion Detection System Project");
    textcolor(WHITE+BLINK);
    textbackground(BLUE);
    gotoxy(5,11);
    printf("\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:
```

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clrscr();
textcolor(WHITE);
textbackground(BLUE);
gotoxy(5,15);
printf("\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);
printf("THE VELLMAN125 is DETECTING");
delay(5000);

screen4:
/* the buzzer,lamp,lever are activated*/

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```

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);
}

```