#include<stdio.h>

#include<conio.h>

#include<dos.h>

#include<graphics.h>

int main()

{

int gd=DETECT,gm;

clrscr();

initgraph(&gd,&gm,"C:\\TC\\BGI");

ledcolor();

getch();

cleardevice();

return 0;

}

ledcolor()

{

int a;

printf("Enter a number between 0-9\n");

scanf("%d",&a);

cleardevice();

setcolor(GREEN);

outtextxy(225,430,"7-Segment LED");

if(a==0)

{

setcolor(RED);

line(215,60,335,60); /\*segment a ON\*/

line(335,60,350,70);

line(335,80,350,70);

line(215,80,335,80);

line(200,70,215,80);

line(200,70,215,60);

line(205,90,205,210); /\*segment b ON\*/

line(205,90,195,80);

line(195,80,185,90);

line(195,220,185,210);

line(185,90,185,210);

line(205,210,195,220);

line(205,250,205,370); /\*segment c ON\*/

line(205,250,195,240);

line(185,250,195,240);

line(185,370,195,380);

line(205,370,195,380);

line(185,250,185,370);

line(215,380,335,380); /\*segment d ON\*/

line(335,380,350,390);

line(335,400,350,390);

line(215,400,335,400);

line(200,390,215,400);

line(200,390,215,380);

line(345,250,345,370); /\*segment e ON\*/

line(345,250,355,240);

line(365,250,355,240);

line(365,250,365,370);

line(345,370,355,380);

line(365,370,355,380);

line(345,90,345,210); /\*segment f ON\*/

line(345,90,355,80);

line(355,80,365,90);

line(355,220,365,210);

line(365,90,365,210);

line(345,210,355,220);

setcolor(00);

line(215,220,335,220); /\*segment g OFF\*/

line(335,220,350,230);

line(335,240,350,230);

line(215,240,335,240);

line(200,230,215,240);

line(200,230,215,220);

setfillstyle(SOLID\_FILL,RED);

floodfill(250,70,RED); //segment a ON

floodfill(190,150,RED); //segment b ON

floodfill(195,300,RED); //segment c ON

floodfill(250,390,RED); //segment d ON

floodfill(355,300,RED); //segment e ON

floodfill(355,150,RED); //segment f ON

}

else if(a==1)

{

setcolor(RED);

line(345,250,345,370); /\*segment e ON\*/

line(345,250,355,240);

line(365,250,355,240);

line(365,250,365,370);

line(345,370,355,380);

line(365,370,355,380);

line(345,90,345,210); /\*segment f ON\*/

line(345,90,355,80);

line(355,80,365,90);

line(355,220,365,210);

line(365,90,365,210);

line(345,210,355,220);

setfillstyle(SOLID\_FILL,RED);

floodfill(355,300,RED); //segment e ON

floodfill(355,150,RED); //segment f ON

setcolor(00);

line(215,60,335,60); /\*segment a OFF\*/

line(335,60,350,70);

line(335,80,350,70);

line(215,80,335,80);

line(200,70,215,80);

line(200,70,215,60);

line(205,90,205,210); /\*segment b OFF\*/

line(205,90,195,80);

line(195,80,185,90);

line(195,220,185,210);

line(185,90,185,210);

line(205,210,195,220);

line(205,250,205,370); /\*segment c OFF\*/

line(205,250,195,240);

line(185,250,195,240);

line(185,370,195,380);

line(205,370,195,380);

line(185,250,185,370);

line(215,380,335,380); /\*segment d OFF\*/

line(335,380,350,390);

line(335,400,350,390);

line(215,400,335,400);

line(200,390,215,400);

line(200,390,215,380);

line(215,220,335,220); /\*segment g OFF\*/

line(335,220,350,230);

line(335,240,350,230);

line(215,240,335,240);

line(200,230,215,240);

line(200,230,215,220);

}

else if(a==2)

{

setcolor(RED);

line(215,60,335,60); /\*segment a ON\*/

line(335,60,350,70);

line(335,80,350,70);

line(215,80,335,80);

line(200,70,215,80);

line(200,70,215,60);

line(205,250,205,370); /\*segment c ON\*/

line(205,250,195,240);

line(185,250,195,240);

line(185,370,195,380);

line(205,370,195,380);

line(185,250,185,370);

line(215,380,335,380); /\*segment d ON\*/

line(335,380,350,390);

line(335,400,350,390);

line(215,400,335,400);

line(200,390,215,400);

line(200,390,215,380);

line(345,90,345,210); /\*segment f ON\*/

line(345,90,355,80);

line(355,80,365,90);

line(355,220,365,210);

line(365,90,365,210);

line(345,210,355,220);

line(215,220,335,220); /\*segment g ON\*/

line(335,220,350,230);

line(335,240,350,230);

line(215,240,335,240);

line(200,230,215,240);

line(200,230,215,220);

setfillstyle(SOLID\_FILL,RED);

floodfill(250,70,RED); //segment a ON

floodfill(195,300,RED); //segment c ON

floodfill(250,390,RED); //segment d ON

floodfill(355,150,RED); //segment f ON

floodfill(250,230,RED); //segment g ON

setcolor(00);

line(205,90,205,210); /\*segment b OFF\*/

line(205,90,195,80);

line(195,80,185,90);

line(195,220,185,210);

line(185,90,185,210);

line(205,210,195,220);

line(345,250,345,370); /\*segment e OFF\*/

line(345,250,355,240);

line(365,250,355,240);

line(365,250,365,370);

line(345,370,355,380);

line(365,370,355,380);

}

else if(a==3)

{

setcolor(RED);

line(215,60,335,60); /\*segment a OFF\*/

line(335,60,350,70);

line(335,80,350,70);

line(215,80,335,80);

line(200,70,215,80);

line(200,70,215,60);

line(215,380,335,380); /\*segment d OFF\*/

line(335,380,350,390);

line(335,400,350,390);

line(215,400,335,400);

line(200,390,215,400);

line(200,390,215,380);

line(345,250,345,370); /\*segment e OFF\*/

line(345,250,355,240);

line(365,250,355,240);

line(365,250,365,370);

line(345,370,355,380);

line(365,370,355,380);

line(345,90,345,210); /\*segment f OFF\*/

line(345,90,355,80);

line(355,80,365,90);

line(355,220,365,210);

line(365,90,365,210);

line(345,210,355,220);

line(215,220,335,220); /\*segment g OFF\*/

line(335,220,350,230);

line(335,240,350,230);

line(215,240,335,240);

line(200,230,215,240);

line(200,230,215,220);

setfillstyle(SOLID\_FILL,RED);

floodfill(250,70,RED); //segment a ON

floodfill(250,390,RED); //segment d ON

floodfill(355,300,RED); //segment e ON

floodfill(355,150,RED); //segment f ON

floodfill(250,230,RED); //segment g ON

setcolor(00);

line(205,90,205,210); /\*segment b OFF\*/

line(205,90,195,80);

line(195,80,185,90);

line(195,220,185,210);

line(185,90,185,210);

line(205,210,195,220);

line(205,250,205,370); /\*segment c OFF\*/

line(205,250,195,240);

line(185,250,195,240);

line(185,370,195,380);

line(205,370,195,380);

line(185,250,185,370);

}

else if(a==4)

{

setcolor(RED);

line(205,90,205,210); /\*segment b ON\*/

line(205,90,195,80);

line(195,80,185,90);

line(195,220,185,210);

line(185,90,185,210);

line(205,210,195,220);

line(345,250,345,370); /\*segment e ON\*/

line(345,250,355,240);

line(365,250,355,240);

line(365,250,365,370);

line(345,370,355,380);

line(365,370,355,380);

line(345,90,345,210); /\*segment f ON\*/

line(345,90,355,80);

line(355,80,365,90);

line(355,220,365,210);

line(365,90,365,210);

line(345,210,355,220);

line(215,220,335,220); /\*segment g ON\*/

line(335,220,350,230);

line(335,240,350,230);

line(215,240,335,240);

line(200,230,215,240);

line(200,230,215,220);

setfillstyle(SOLID\_FILL,RED);

floodfill(190,150,RED); //segment b ON

floodfill(355,300,RED); //segment e ON

floodfill(355,150,RED); //segment f ON

floodfill(250,230,RED); //segment g ON

setcolor(00);

line(215,60,335,60); /\*segment a OFF\*/

line(335,60,350,70);

line(335,80,350,70);

line(215,80,335,80);

line(200,70,215,80);

line(200,70,215,60);

line(205,250,205,370); /\*segment c OFF\*/

line(205,250,195,240);

line(185,250,195,240);

line(185,370,195,380);

line(205,370,195,380);

line(185,250,185,370);

line(215,380,335,380); /\*segment d OFF\*/

line(335,380,350,390);

line(335,400,350,390);

line(215,400,335,400);

line(200,390,215,400);

line(200,390,215,380);

}

else if(a==5)

{

setcolor(RED);

line(215,60,335,60); /\*segment a ON\*/

line(335,60,350,70);

line(335,80,350,70);

line(215,80,335,80);

line(200,70,215,80);

line(200,70,215,60);

line(205,90,205,210); /\*segment b ON\*/

line(205,90,195,80);

line(195,80,185,90);

line(195,220,185,210);

line(185,90,185,210);

line(205,210,195,220);

line(215,380,335,380); /\*segment d ON\*/

line(335,380,350,390);

line(335,400,350,390);

line(215,400,335,400);

line(200,390,215,400);

line(200,390,215,380);

line(345,250,345,370); /\*segment e ON\*/

line(345,250,355,240);

line(365,250,355,240);

line(365,250,365,370);

line(345,370,355,380);

line(365,370,355,380);

line(215,220,335,220); /\*segment g ON\*/

line(335,220,350,230);

line(335,240,350,230);

line(215,240,335,240);

line(200,230,215,240);

line(200,230,215,220);

setfillstyle(SOLID\_FILL,RED);

floodfill(250,70,RED); //segment a ON

floodfill(190,150,RED); //segment b ON

floodfill(250,390,RED); //segment d ON

floodfill(355,300,RED); //segment e ON

floodfill(250,230,RED); //segment g ON

setcolor(00);

line(205,250,205,370); /\*segment c OFF\*/

line(205,250,195,240);

line(185,250,195,240);

line(185,370,195,380);

line(205,370,195,380);

line(185,250,185,370);

line(345,90,345,210); /\*segment f OFF\*/

line(345,90,355,80);

line(355,80,365,90);

line(355,220,365,210);

line(365,90,365,210);

line(345,210,355,220);

}

else if(a==6)

{

setcolor(RED);

line(215,60,335,60); /\*segment a ON\*/

line(335,60,350,70);

line(335,80,350,70);

line(215,80,335,80);

line(200,70,215,80);

line(200,70,215,60);

line(205,90,205,210); /\*segment b ON\*/

line(205,90,195,80);

line(195,80,185,90);

line(195,220,185,210);

line(185,90,185,210);

line(205,210,195,220);

line(205,250,205,370); /\*segment c ON\*/

line(205,250,195,240);

line(185,250,195,240);

line(185,370,195,380);

line(205,370,195,380);

line(185,250,185,370);

line(215,380,335,380); /\*segment d ON\*/

line(335,380,350,390);

line(335,400,350,390);

line(215,400,335,400);

line(200,390,215,400);

line(200,390,215,380);

line(345,250,345,370); /\*segment e ON\*/

line(345,250,355,240);

line(365,250,355,240);

line(365,250,365,370);

line(345,370,355,380);

line(365,370,355,380);

line(215,220,335,220); /\*segment g ON\*/

line(335,220,350,230);

line(335,240,350,230);

line(215,240,335,240);

line(200,230,215,240);

line(200,230,215,220);

setfillstyle(SOLID\_FILL,RED);

floodfill(250,70,RED); //segment a ON

floodfill(190,150,RED); //segment b ON

floodfill(195,300,RED); //segment c ON

floodfill(250,390,RED); //segment d ON

floodfill(355,300,RED); //segment e ON

floodfill(250,230,RED); //segment g ON

setcolor(00);

line(345,90,345,210); /\*segment f OFF\*/

line(345,90,355,80);

line(355,80,365,90);

line(355,220,365,210);

line(365,90,365,210);

line(345,210,355,220);

}

else if(a==7)

{

setcolor(RED);

line(215,60,335,60); /\*segment a ON\*/

line(335,60,350,70);

line(335,80,350,70);

line(215,80,335,80);

line(200,70,215,80);

line(200,70,215,60);

line(345,250,345,370); /\*segment e ON\*/

line(345,250,355,240);

line(365,250,355,240);

line(365,250,365,370);

line(345,370,355,380);

line(365,370,355,380);

line(345,90,345,210); /\*segment f ON\*/

line(345,90,355,80);

line(355,80,365,90);

line(355,220,365,210);

line(365,90,365,210);

line(345,210,355,220);

setfillstyle(SOLID\_FILL,RED);

floodfill(250,70,RED); //segment a ON

floodfill(355,300,RED); //segment e ON

floodfill(355,150,RED); //segment f ON

setcolor(00);

line(205,90,205,210); /\*segment b OFF\*/

line(205,90,195,80);

line(195,80,185,90);

line(195,220,185,210);

line(185,90,185,210);

line(205,210,195,220);

line(205,250,205,370); /\*segment c OFF\*/

line(205,250,195,240);

line(185,250,195,240);

line(185,370,195,380);

line(205,370,195,380);

line(185,250,185,370);

line(215,380,335,380); /\*segment d OFF\*/

line(335,380,350,390);

line(335,400,350,390);

line(215,400,335,400);

line(200,390,215,400);

line(200,390,215,380);

line(215,220,335,220); /\*segment g OFF\*/

line(335,220,350,230);

line(335,240,350,230);

line(215,240,335,240);

line(200,230,215,240);

line(200,230,215,220);

}

else if(a==8)

{

setcolor(RED);

line(215,60,335,60); /\*segment a ON\*/

line(335,60,350,70);

line(335,80,350,70);

line(215,80,335,80);

line(200,70,215,80);

line(200,70,215,60);

line(205,90,205,210); /\*segment b ON\*/

line(205,90,195,80);

line(195,80,185,90);

line(195,220,185,210);

line(185,90,185,210);

line(205,210,195,220);

line(205,250,205,370); /\*segment c ON\*/

line(205,250,195,240);

line(185,250,195,240);

line(185,370,195,380);

line(205,370,195,380);

line(185,250,185,370);

line(215,380,335,380); /\*segment d ON\*/

line(335,380,350,390);

line(335,400,350,390);

line(215,400,335,400);

line(200,390,215,400);

line(200,390,215,380);

line(345,250,345,370); /\*segment e ON\*/

line(345,250,355,240);

line(365,250,355,240);

line(365,250,365,370);

line(345,370,355,380);

line(365,370,355,380);

line(345,90,345,210); /\*segment f ON\*/

line(345,90,355,80);

line(355,80,365,90);

line(355,220,365,210);

line(365,90,365,210);

line(345,210,355,220);

line(215,220,335,220); /\*segment g ON\*/

line(335,220,350,230);

line(335,240,350,230);

line(215,240,335,240);

line(200,230,215,240);

line(200,230,215,220);

setfillstyle(SOLID\_FILL,RED);

floodfill(250,70,RED); //segment a ON

floodfill(190,150,RED); //segment b ON

floodfill(195,300,RED); //segment c ON

floodfill(250,390,RED); //segment d ON

floodfill(355,300,RED); //segment e ON

floodfill(355,150,RED); //segment f ON

floodfill(250,230,RED); //segment g ON

}

else if(a==9)

{

setcolor(RED);

line(215,60,335,60); /\*segment a ON\*/

line(335,60,350,70);

line(335,80,350,70);

line(215,80,335,80);

line(200,70,215,80);

line(200,70,215,60);

line(205,90,205,210); /\*segment b ON\*/

line(205,90,195,80);

line(195,80,185,90);

line(195,220,185,210);

line(185,90,185,210);

line(205,210,195,220);

line(215,380,335,380); /\*segment d ON\*/

line(335,380,350,390);

line(335,400,350,390);

line(215,400,335,400);

line(200,390,215,400);

line(200,390,215,380);

line(345,250,345,370); /\*segment e ON\*/

line(345,250,355,240);

line(365,250,355,240);

line(365,250,365,370);

line(345,370,355,380);

line(365,370,355,380);

line(345,90,345,210); /\*segment f ON\*/

line(345,90,355,80);

line(355,80,365,90);

line(355,220,365,210);

line(365,90,365,210);

line(345,210,355,220);

line(215,220,335,220); /\*segment g ON\*/

line(335,220,350,230);

line(335,240,350,230);

line(215,240,335,240);

line(200,230,215,240);

line(200,230,215,220);

setfillstyle(SOLID\_FILL,RED);

floodfill(250,70,RED); //segment a ON

floodfill(190,150,RED); //segment b ON

floodfill(250,390,RED); //segment d ON

floodfill(355,300,RED); //segment e ON

floodfill(355,150,RED); //segment f ON

floodfill(250,230,RED); //segment g ON

setcolor(00);

line(205,250,205,370); /\*segment c OFF\*/

line(205,250,195,240);

line(185,250,195,240);

line(185,370,195,380);

line(205,370,195,380);

line(185,250,185,370);

}

else

printf("Error");

return 0;

}

**OUTPUT:**

**Enter a number between 0-9  
8**

