



D.A.V. SENIOR SECONDARY SCHOOL, CHENNAI-600 050

COMPUTER SCIENCE PROJECT

TITAN

A MULTI-APPLICATION LAUNCHER

DONE BY:

B.VIGNESH XII 'B'

ROLL:



D.A.V. SENIOR SECONDARY SCHOOL, CHENNAI-600 050

COMPUTER SCIENCE PROJECT

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A MULTI-APPLICATION LAUNCHER

DONE BY:

N.KHAVEESH XII 'A'

ROLL:



D.A.V. SENIOR SECONDARY SCHOOL, CHENNAI-600 050

COMPUTER SCIENCE PROJECT

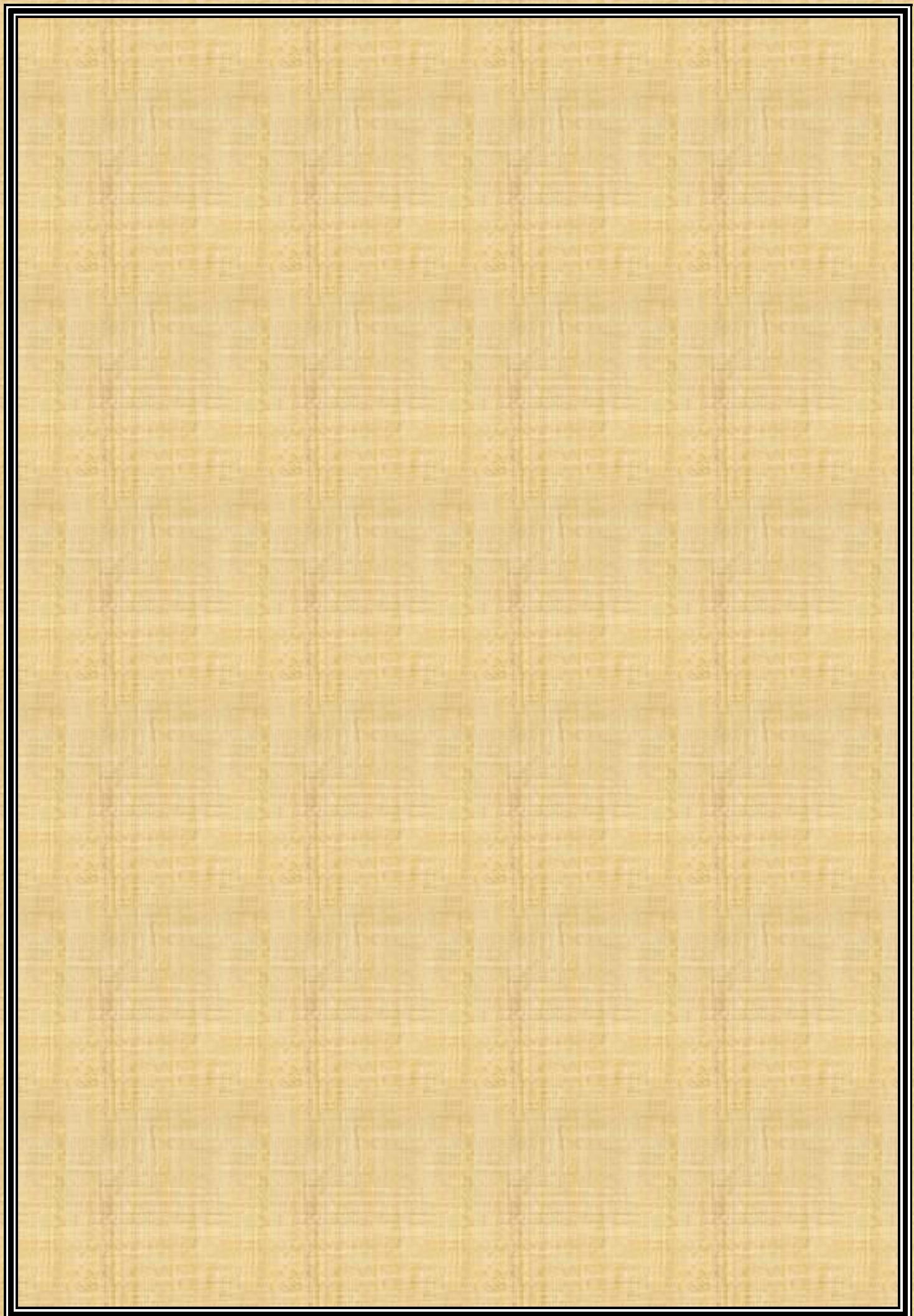
TITAN

A MULTI-APPLICATION LAUNCHER

DONE BY:

AL.MUTHU VEERAPPAN XII 'A'

ROLL:



Bonafide Certificate

Certified to be the bonafide project work done in
COMPUTER SCIENCE done by **N.KHAVEESH** of class
XII section '**A**' of **D.A.V. SENIOR SECONDARY**
SCHOOL, MOGAPP AIR, CHENNAI-600 050 during the
year 2017-2018.

SIGNATURE OF PRINCIPAL

SCHOOL SEAL

SIGNATURE OF SUBJECT
TEACHER

Submitted for the practical examination held
on..... At **D.A.V.SENIOR SECONDARY**
SCHOOL, MOGAPP AIR,
CHENNAI-50.

INTERNAL EXAMINER

EXTERNAL EXAMINER

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VEERAPPAN of class **XII** section '**A**' of **D.A.V. SENIOR**
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INTERNAL EXAMINER

EXTERNAL EXAMINER

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Bonafide Certificate

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INTERNAL EXAMINER

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Acknowledgement

I thank the Almighty for being able to complete this project with success. I would like to express my heartfelt thanks to my teacher Mrs.Uma Arthi as well as our principal Mrs.Lalitha Thiagarajan who gave me the golden opportunity to do this wonderful project, which also helped me in doing a lot of research and I have come to know about so many new concepts.I am really grateful to them. Moreover I would also like to thank my parents and friends who helped me a lot in completing this project within the limited time frame.

ABOUT THE PROJECT

The goal was to create a project to emulate a multi-purpose application launcher that would enable the user to access multiple applications in one go and to create an user-friendly project that would be simple in aesthetics and would be easy to expand.

The applications are:-

- ❖ *Calculator*
- ❖ *Quiz*
- ❖ *Connect 5*
- ❖ *Calendar*
- ❖ *Tricky test*
- ❖ *Mind maze*
- ❖ *Kollywood game*
- ❖ *Small basket*
- ❖ *Clock*
- ❖ *Paint*
- ❖ *News Corner*
- ❖ *Mathematical operations*

User can access these applications by signing up. Each user profile is protected with a user-specified password which can be changed by the user.

There is an admin account included which can be used to modify the questions, news and stocks of small basket. The account can be accessed at the login page which is used by user to login.

The launcher stores the high scores of several game. It also stores the details of past orders of small basket.

Concepts used:

- ❖ *Arrays*
- ❖ *Pointers*
- ❖ *Structures & Classes*
- ❖ *C++ graphics*

❖ Binary files:

- *ACCESS.dat* //file is used to store user name and password
- *QUIZ.dat* //file is used to store questions and answers of quiz.
- *NEWS.dat* //file which contains the news.
- *QUSC.dat*//file to store quiz high scores.
- *ESTOCK.dat* //file to store electronics
- *FBSTOCK.dat* //file to store food and Beverages

- *GSTOCK.dat* //file to store groceries
- *VSTOCK.dat* //file to store vegetables
- *BSTOCK.dat* //file to store best deals
- *Order summary* will be maintained with help of a binary file which has the name as that of user.

❖ Modularity

- *TITAN.H*

*Source
code*

Our own header file: TITAN.H

```
//*****HEADER FILES*****  
  
#include<conio.h>  
#include<graphics.h>  
#include<string.h>  
#include<stdio.h>  
#include<process.h>  
#include<stdlib.h>  
#include<dos.h>  
#include<math.h>  
#include<time.h>  
#include<ctype.h>  
#include<alloc.h>  
#include<bios.h>  
#include<fstream.h>  
  
//*****  
  
//*****GLOBAL VARIABLES DECLARATION*****  
  
void load();  
const int RIGHT=19712, LEFT=19200, UP=18432,  
        DOWN=20480, ENTER=7181, ESC=283;  
int b[50][50], count=0;  
int xx=0, lo=75, bb, n;  
int hb[20][20], flag=0, scorn=0;
```

```
char str[30];
int Left = 240,Top = 120, Width = 210, Height = 210 ;
double _YYYY,_MM,_DD,_tempyy,_tempmm;
union REGS i,o;

struct user
{
    char uname[20], pwd[20];
};

struct film
{
    char n[20],h1[20],h2[20];
};

struct qu
{
    char a[100],b[4][40];
};

struct high
{
    char name[20];
    int score;
}a,c;

struct sum
{
    char q[25];
    int amt,qty;
};
```

```

struct login
{
    char id[20], pass[20];
}log1;

class newsc
{
    char h[80],h2[80],t[80],b[3][180];
public:
void news1();
void modifynews();
};

class stock
{
public:
char name[40];  int stok;
stock(){strcpy(name,"");stok=0;}
stock(char*,int,char*);
};

void menu2();
void menu4();
void news();
char*capitalise(char a[]);
int stock_exists(char*,char*);
sum give_me_the_product(char*,int);
int NoP(char*);
char*itoa(int);
int blank_record(sum);
void create_stock_list(char);
void purchase(char b[8][25],int price[8],char* ,
            char*,char*);
int new_sb_user();

```

```

void final_message(char* );
void summary(char* );
void delivery_message(char* );
void user_stuff(char* );
void alter(char b[8][25],char* );
void admin_stuff();
void reinitialise_file_pointer(char* );

//*****FUNCTION DEFINITION*****

void string( char *strsrc , int dsp = 25 )
{
    char c[2];
    for (int iter = 0 ; strsrc[iter] ; iter++)
    {
        c[0] = strsrc[iter];
        c[1] = 0 ;
        outtext(c) ;
        delay(dsp) ;
    }
}

//*****USER NAME AND PASSWORD*****

void create_admins()
{
    login log={"admin","davian"},
          log1={"Muthu","momentum"},
          log2={"vignesh","gold"},
          log3={"khaveesh","slave"};

    ifstream f1("access.dat",ios::binary);

```

```
    if(!f1)
    {
        f1.close();
        ofstreamf2("access.dat",ios::binary
                   |ios::app);
        f2.write((char*)&log,sizeof(log));
        f2.write((char*)&log1,sizeof(log1));
        f2.write((char*)&log2,sizeof(log2));
        f2.write((char*)&log3,sizeof(log3));
        f2.close();
    }
    else    f1.close();
}
```

```
//*****CONNECT 5*****
```

```
void display0()
{
    setcolor(YELLOW);
    settextstyle(8,0,5);
    outtextxy(220,20,"CSC");
    setcolor(YELLOW);
    settextstyle(8,0,5);
    outtextxy(80,60,"PROJECT");
    setcolor(YELLOW);
    settextstyle(8,0,5);
    outtextxy(290,20,"GAME");
    setcolor(YELLOW);
    settextstyle(8,0,5);
    outtextxy(290,60,"2016-2018");
    setcolor(YELLOW);
    settextstyle(8,0,1);
    outtextxy(40,350,"BY");
    setcolor(YELLOW);
```

```
        settextstyle(8,0,1);
        outtextxy(40,370,"TITANIANS");
        settextstyle(8,0,1);
        outtextxy(40,390,"12 a b");
        settextstyle(20,0,50);
    }

//*****
```

```
void display()
{
    setcolor(RED);
    settextstyle(4,0,5);
    outtextxy(190,20,"CONNECT 5");
    setcolor(RED);
    settextstyle(4,0,5);
    outtextxy(300,20," ");
    setcolor(YELLOW);
    settextstyle(20,0,50);
}

//*****
```

```
void display1()
{
    setcolor(RED);
    settextstyle(4,0,5);
    outtextxy(225,20,"CONNECT 5");
    setcolor(YELLOW);
    settextstyle(20,0,5);
}

//*****
```

```

void display2()
{
    setcolor(YELLOW);
    settextstyle(7,0,5);
    outtextxy(220,20,"CONNECT 5");
    settextstyle(20,0,50);
}

//*****



void display4()
{
    setcolor(YELLOW);
    settextstyle(3,0,5);
    outtextxy(130,20,"SELECT CO-ORDINATE");
    settextstyle(20,0,50);
}

//*****



void help3()
{
    setbkcolor(BLACK);
    cleardevice();
    gotoxy(27,2);
    cout<<"HELP TO PLAY GAME";
    delay(350);
    gotoxy(10,6);
    cout<<"1). A Strategy game for 2
players.";
    delay(350);
    gotoxy(10,8);
    cout<<"2). The Objective of connect-
5 is to make 5 orbs in a row";
}

```

```

        delay(350);
        gotoxy(10,10);
        cout<<"3). Players take turns to
                place their orbs in cell.";
        delay(350);
        gotoxy(10,12);
        cout<<"4). Once a player makes
5(five) in a row which can be formed
horizontal or vertical or diagonal;
the player wins so the game ends";
        delay(350);
        gotoxy(10,16);
        getch();
    }

//*****



void credits()
{
    cleardevice();
    setbkcolor(BLACK);
    setcolor(RED);
    outtextxy(275,110,"TITAN GAME PROJECT");
    delay(350);
    setcolor(BLUE);
    {
        outtextxy(300,170,"DONE BY");
        outtextxy(325,190,"TITANNIANS");
    }
    delay(350);
    setcolor(YELLOW);
    {
        outtextxy(300,230,"BLESSED TO BE STUDENT
                                OF...");
```

```

        outtextxy(325,250,"DAV SENIOR
                                SECONDARY");
        outtextxy(325,270,"SCHOOL MOGAPPALAIR");
    }
delay(350);
}

//*****



void gameplay3()
{
cleardevice();
setbkcolor(BLACK);
int c=15,r=15,cc=0,cr=0,a,i,j,w=30,x=5,y=5,cp=1;

for(i=0;i<r;i++)
    for(j=0;j<c;j++)
    {
        b[i][j]=1;
    }

for(i=0;i<r;i++)
    for(j=0;j<c;j++)
    {
        rectangle(x+j*w,y+i*w,x+j*w+w,y+i*w+w);
        setcolor(20);
    }

setcolor(5);
rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);

while((a=bioskey(0))!=ESC)
{
switch(a)

```

```

{

case LEFT:if(cp==1)
{
    setcolor(20);
    rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
}
else
{
    setcolor(18);
    rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
}

if(cc==0)
    cc=c-1;
else
    cc--;

    setcolor(5);
rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
break;

case RIGHT: if(cp==1)
{
    setcolor(20);
    rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
}
else
{
    setcolor(18);
    rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
}
if(cc==c-1)
}

```

```

        cc=0;
    else
        cc++;
    setcolor(5);
    rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
    break;

case UP:if(cp==1)
{
    setcolor(20);
    rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
}
else
{
    setcolor(18);
    rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
}
if(cr==0)
    cr=r-1;
else
    cr--;
setcolor(5);
rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
break;

case DOWN:if(cp==1)
{
    setcolor(20);
    rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
}
else
{
    setcolor(18);
    rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
}

```

```

        }
        if(cr==r-1)
            cr=0;
        else
            cr++;
        setcolor(5);
        rectangle(x+cc*w,y+cr*w,x+cc*w+w,y+cr*w+w);
        break;

case ENTER:
    if(b[cr][cc]==1)
    {
        for(i=0;i<c;i++)
        for(j=0;j<r;j++)
        {
            if(cp==1&&b[cr][cc]!=3&&b[cr][cc]==1)
            {
                setcolor(18);
                rectangle(x+j*w,y+i*w,x+j*w+w,y+i*w+w);
                setfillstyle(1,20);
                setcolor(20);
            }
            else
                if(b[cr][cc]==1&&b[cr][cc]!=2&&cp==2)
            {
                setcolor(20);
                rectangle(x+j*w,y+i*w,x+j*w+w,y+i*w+w);
                setfillstyle(1,18);
                setcolor(18);
            }
        }
    }

    fillellipse(x+cc*w+w/2,y+cr*w+w/2,10,10);
    if(cp==1)

```

```

        {
            b[cr][cc]=2;
        }
        else if(cp==2)
        {
            b[cr][cc]=3;
        }

        if(b[cr][cc]==2&&b[cr][cc+1]==2&&b[cr][cc+2]==2&&b[cr][cc+3]==2&&b[cr][cc+4]==2)
        {
            setcolor(RED);
            outtextxy(470,100,"Player 1 wins");
            outtextxy(470,110,"Press esc key to
                                exit.");
            getch();
        }

        else
        if(b[cr][cc]==3&&b[cr][cc+1]==3&&b[cr][cc+2]==3&&b[cr][cc+3]==3&&b[cr][cc+4]==3)
        {
            setcolor(RED);
            outtextxy(470,100,"Player 2 wins");
            outtextxy(470,110,"Press esc key to
                                exit.");
            getch();
        }

        else
        if(b[cr][cc]==2&&b[cr][cc-1]==2&&b[cr]
[cc-2]==2&&b[cr][cc-3]==2&&b[cr][cc-4]==2)
        {
            setcolor(RED);

```

```

        outtextxy(470,100,"Player 1 wins");
        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }

else
    if(b[cr][cc]==3&&b[cr][cc-1]==3&&b[cr][cc-
2]==3&&b[cr][cc-3]==3&&b[cr][cc-4]==3)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 2 wins");
        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }

else
    if(b[cr][cc]==2&&b[cr][cc+1]==2&&b[cr][cc+2]=
=2&&b[cr][cc-1]==2&&b[cr][cc-2]==2)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 1 wins");
        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }

else
    if(b[cr][cc]==3&&b[cr][cc+1]==3&&b[cr][cc+2]=
=3&&b[cr][cc-1]==3&&b[cr][cc-2]==3)
    {
        setcolor(RED);

```

```

        outtextxy(470,100,"Player 2 wins");
        outtextxy(470,110,"Press esc key to
                           exit");
        getch();
    }

else
    if(b[cr][cc]==2&&b[cr][cc-1]==2&&b[cr][cc-
2]==2&&b[cr][cc-3]==2&&b[cr][cc+1]==2)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 1 wins");
        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }

else
    if(b[cr][cc]==3&&b[cr][cc-1]==3&&b[cr][cc-
2]==3&&b[cr][cc-3]==3&&b[cr][cc+1]==3)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 2 wins");
        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }

else
    if(b[cr][cc]==2&&b[cr][cc+1]==2&&b[cr][cc+2]==
2&&b[cr][cc+3]==2&&b[cr][cc-1]==2)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 1 wins");
    }

```

```

        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }
    else
        if(b[cr][cc]==3&&b[cr][cc+1]==3&&b[cr][cc
+2]==3&&b[cr][cc+3]==3&&b[cr][cc-1]==3)
        {
            setcolor(RED);
            outtextxy(470,100,"Player 2 wins");
            outtextxy(470,110,"Press esc key to
                           exit.");
            getch();
        }

    else
        if(b[cr][cc]==2&&b[cr+1][cc]==2&&b[cr+2][
cc]==2&&b[cr-1][cc]==2&&b[cr-2][cc]==2)
        {
            setcolor(RED);
            outtextxy(470,100,"Player 1 wins");
            outtextxy(470,110,"Press esc key to
                           exit.");
            getch();
        }

    else
        if(b[cr][cc]==3&&b[cr+1][cc]==3&&b[cr+2][
cc]==3&&b[cr-1][cc]==3&&b[cr-2][cc]==3)
        {
            setcolor(RED);
            outtextxy(470,100,"Player 2 wins");
            outtextxy(470,110,"Press esc key to
                           exit.");
        }

```

```

        getch();
    }

else
    if(b[cr][cc]==2&&b[cr+1][cc]==2&&b[cr+2][
    cc]==2&&b[cr+3][cc]==2&&b[cr+4][cc]==2)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 1 wins");
        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }

else
    if(b[cr][cc]==3&&b[cr+1][cc]==3&&b[cr+2][
    cc]==3&&b[cr+3][cc]==3&&b[cr+4][cc]==3)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 2 wins");
        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }

else if
    (b[cr][cc]==2&&b[cr-1][cc]==2&&b[cr-2]
    [cc]==2&&b[cr-3][cc]==2&&b[cr-4][cc]==2)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 1 wins");
        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }

```

```

        }
    else
        if(b[cr][cc]==3&&b[cr-1][cc]==3&&b[cr-
2][cc]==3&&b[cr-3][cc]==3&&b[cr-4][cc]==3)
        {
            setcolor(RED);
            outtextxy(470,100,"Player 2 wins");
            outtextxy(470,110,"Press esc key to
                exit.");
            getch();
        }
    else
        if(b[cr][cc]==2&&b[cr1][cc]==2&&b[cr+1][cc]
==2&&b[cr+2][cc]==2&&b[cr+3][cc]==2)
        {
            setcolor(RED);
            outtextxy(470,100,"Player 1 wins");
            outtextxy(470,110,"Press esc key to
                exit.");
            getch();
        }
    else
        if(b[cr][cc]==3&&b[cr-1][cc]==3&&b[cr+1]
[cc]==3&&b[cr+2][cc]==3&&b[cr+3][cc]==3)
        {
            setcolor(RED);
            outtextxy(470,100,"Player 2 wins");
            outtextxy(470,110,"Press esc key to
                exit.");
            getch();
        }
    else

```

```

        if(b[cr][cc]==2&&b[cr+1][cc]==2&&b[cr-
1][cc] ==2&&b[cr-2][cc]==2&&b[cr-3][cc]==2)
        {
            setcolor(RED);
            outtextxy(470,100,"Player 1 wins");
            outtextxy(470,110,"Press esc key to
                exit.");
            getch();
        }

    else
        if(b[cr][cc]==3&&b[cr+1][cc]==3&&b[cr-
1][cc]==3&&b[cr-2][cc]==3&&b[cr-3][cc]==3)
        {
            setcolor(RED);
            outtextxy(470,100,"Player 2 wins");
            outtextxy(470,110,"Press esc key to
                exit.");
            getch();
        }

    else if(b[cr][cc]==2&&b[cr-1][cc-
1]==2&&b[cr-2][cc-2]==2&&b[cr-3][cc-
3]==2&&b[cr-4][cc-4]==2)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 1 wins");
        outtextxy(470,110,"Press esc key to
            exit.");
        getch();
    }

```

```

else if(b[cr][cc]==3&&b[cr-1][cc-
1]==3&&b[cr-2][cc-2]==3&&b[cr-3][cc-
3]==3&&b[cr-4][cc-4]==3)
{
setcolor(RED);
outtextxy(470,100,"Player 2 wins");
outtextxy(470,110,"Press esc key to
exit.");
getch();
}

Else
if(b[cr][cc]==2&&b[cr+1][cc+1]==2&&b[cr+2]
][cc+2]==2&&b[cr+3][cc+3]==2&&b[cr+4][cr+
4]==2)
{
setcolor(RED);
outtextxy(470,100,"Player 1 wins");
outtextxy(470,110,"Press esc key to
exit.");
getch();
}
else
if(b[cr][cc]==3&&b[cr+1][cc+1]==3&&b[cr+2]
][cc+2]==3&&b[cr+3][cc+3]==3&&b[cr+4][cc+
4]==3)
{
setcolor(RED);
outtextxy(470,100,"Player 2 wins");
outtextxy(470,110,"Press esc key to
exit.");
getch();
}

```

```

else

    if(b[cr][cc]==2&&b[cr+1][cc+1]==2&&b[cr-
    1][cc-1]==2&&b[cr+2][cc+2]==2&&b[cr-
    2][cc-2]==2)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 1 wins");
        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }

else
    if(b[cr][cc]==3&&b[cr+1][cc+1]==3&&b[cr-
    1][cc-1]==3&&b[cr+2][cc+2]==3&&b[cr-
    2][cc-2]==3)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 2 wins");
        outtextxy(470,110,"Press esc key to
                           exit.");
        getch();
    }

else if(b[cr][cc]==2&&b[cr-
    1][cc+1]==2&&b[cr-
    2][cc+2]==2&&b[cr+1][cc-
    1]==2&&b[cr+2][cc-2]==2)
{
    setcolor(RED);
    outtextxy(470,100,"Player 1 wins");
    outtextxy(470,110,"Press esc key to
                           exit.");
}

```

```

        getch();
    }

    else if(b[cr][cc]==3&&b[cr-
1][cc+1]==3&&b[cr-
2][cc+2]==3&&b[cr+1][cc-
1]==3&&b[cr+2][cc-2]==3)
{
    setcolor(RED);
    outtextxy(470,100,"Player 2 wins");
    outtextxy(470,110,"Press esc key to
exit.");
    getch();
}

else if(b[cr][cc]==2&&b[cr+1][cc-
1]==2&&b[cr+2][cc-2]==2&&b[cr+3][cc-
3]==2&&b[cr+4][cc-4]==2)
{
    setcolor(RED);
    outtextxy(470,100,"Player 1 wins");
    outtextxy(470,110,"Press esc key to
exit.");
    getch();
}

else if(b[cr][cc]==3&&b[cr+1][cc-
1]==3&&b[cr+2][cc-2]==3&&b[cr+3][cc-
3]==3&&b[cr+4][cc-4]==3)
{
    setcolor(RED);
    outtextxy(470,100,"Player 2 wins");
    outtextxy(470,110,"Press esc key to
exit.");
}

```

```

        getch();
    }
    else if(b[cr][cc]==2&&b[cr-
1][cc+1]==2&&b[cr-2][cc+2]==2&&b[cr-
3][cc+3]==2&&b[cr-4][cc+4]==2)
{
    setcolor(RED);
    outtextxy(470,100,"Player 1 wins");
    outtextxy(470,110,"Press esc key to
exit.");
    getch();
}

else if(b[cr][cc]==3&&b[cr-
1][cc+1]==3&&b[cr-2][cc+2]==3&&b[cr-
3][cc+3]==3&&b[cr-4][cc+4]==3)
{
    setcolor(RED);
    outtextxy(470,100,"Player 2 wins");
    outtextxy(470,110,"Press esc key to
exit.");
    getch();
}

else if(b[cr][cc]==2&&b[cr+1][cc-
1]==2&&b[cr+2][cc-2]==2&&b[cr+3][cc-
3]==2&&b[cr-1][cc+1]==2)
{
    setcolor(RED);
    outtextxy(470,100,"Player 1 wins");
    outtextxy(470,110,"Press esc key to
exit.");
    getch();
}

```

```

else if(b[cr][cc]==3&&b[cr+1][cc-
1]==3&&b[cr+2][cc-2]==3&&b[cr+3][cc-
3]==3&&b[cr-1][cc+1]==3)
{
setcolor(RED);
outtextxy(470,100,"Player 2 wins");
outtextxy(470,110,"Press esc key to
exit.");
getch();
}

else if(b[cr][cc]==2&&b[cr-
1][cc+1]==2&&b[cr-2][cc+2]==2&&b[cr-
3][cc+3]==2&&b[cr+1][cc-1]==2)
{
setcolor(RED);
outtextxy(470,100,"Player 1 wins");
outtextxy(470,110,"Press esc key to
exit.");
getch();
}

else if(b[cr][cc]==3&&b[cr-
1][cc+1]==3&&b[cr-2][cc+2]==3&&b[cr-
3][cc+3]==3&&b[cr+1][cc-1]==3)
{
setcolor(RED);
outtextxy(470,100,"Player 2 wins");
outtextxy(470,110,"Press esc key to
exit.");
getch();
}

```

```

        else
            if(b[cr][cc]==2&&b[cr+1][cc+1]==2&&b[cr-
                1][cc-
                1]==2&&b[cr+2][cc+2]==2&&b[cr+3][cc+3]==2
            )
            {
                setcolor(RED);
                outtextxy(470,100,"Player 1 wins");
                outtextxy(470,110,"Press esc key to
                    exit.");
            getch();
        }
    else
        if(b[cr][cc]==3&&b[cr+1][cc+1]==3&&b[cr-
            1][cc-
            1]==3&&b[cr+2][cc+2]==3&&b[cr+3][cc+3]==3
        )
        {
            setcolor(RED);
            outtextxy(470,100,"Player 2 wins");
            outtextxy(470,110,"Press esc key to
                exit.");
        getch();
    }

else
    if(b[cr][cc]==2&&b[cr+1][cc+1]==2&&b[cr-
        3][cc-3]==2&&b[cr-1][cc-1]==2&&b[cr-
        2][cc-2]==2)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 1 wins");
        outtextxy(470,110,"Press esc key to
            exit.");
    }
}

```

```

        getch();
    }

    else
        if(b[cr][cc]==3&&b[cr+1][cc+1]==3&&b[cr-
3][cc-3]==3&&b[cr-2][cc-2]==3&&b[cr-
1][cc-1]==3)
    {
        setcolor(RED);
        outtextxy(470,100,"Player 2 wins");
        outtextxy(470,110,"Press esc key to
                                exit.");
        getch();
    }

    if(cp==1)
        cp=2;
    else if(cp==2)
        cp=1;
    }
}

//*****CALENDAR*****
char *_output(double cap)
{
    double dd;
    char CDD[6],CD[6];
    int l = 0;
    dd = cap;

```

```

        gcvt(dd,10,CDD);
        l = strlen(CDD);
        if(l == 1)
            {
                strcpy(CD,"0");
                strcat(CD,CDD);
            }

        else
        {
            strcpy(CD,CDD);
        }

        return(CD);
    }

//*****



int _NumberOfDays(int month, int year)
{
    int No_of_days = 0;
    switch(month)
    {
        case 1:
            No_of_days = 31;
            break;
        case 2:
            if((year)%4 == 0)
                No_of_days = 29;
            else
                No_of_days = 28;
            break;
        case 3:

```

```
No_of_days = 31;
break;
case 4:
No_of_days = 30;
break;
case 5:
No_of_days = 31;
break;
case 6:
No_of_days = 30;
break;
case 7:
No_of_days = 31;
break;
case 8:
No_of_days = 31;
break;
case 9:
No_of_days = 30;
break;
case 10:
No_of_days = 31;
break;
case 11:
No_of_days = 30;
break;
case 12:
No_of_days = 31;
break;
}

return No_of_days;
}
//*****
```

```
void DrawBox(int left,int top, int width, int height,
int bgcolor)
{
    setfillstyle(SOLID_FILL,bgcolor);
    bar(left,top,left+width,top+height);
    setcolor(BLACK);
    line(left+1,top+1,left+width-1,top+1);
    line(left+1,top+1,left+1,top+height-1);
    setcolor(DARKGRAY);
    line(left,top,left+width,top);
    line(left,top,left,top+height);
    setcolor(DARKGRAY);
    line(left+1,top+height-1,left+width-1,
top+height-1);
    line(left+width-1,top+1,left+width-1,
top+height-1);
}
//*****



void DrawCaption(int left, int top, int width, int
height, char *str, int col)
{
    setcolor(col);
    outtextxy(left+(width/2)-(textwidth(str)/2)+1,
top+(height/2)-(textheight(str)/2)+1,str);
}
//*****
```

```

char *month(double mon)
{
    char month_name[][][80] =
{"January", "February", "March", "April", "May", "June", "J
uly", "August", "September", "October", "November", "Decem
ber"};
```

return (month_name[mon-1]);

}

//*****

```

int No_Of_Days(char date1[], char date2[])
{
    int d1, m1, y1;
    int d2, m2, y2;
    int D,M,Y;
    int Arr[12];
    int i,count;
    y1 = (date1[6] - 48) * 1000 + (date1[7] - 48) *
100 + (date1[8] - 48) * 10 + (date1[9] - 48);
    m1 = (date1[3] - 48) * 10 + (date1[4] - 48);
    d1 = (date1[0] - 48) * 10 + (date1[1] - 48);

    y2 = (date2[6] - 48) * 1000 + (date2[7] - 48) *
100 + (date2[8] - 48) * 10 + (date2[9] - 48);
    m2 = (date2[3] - 48) * 10 + (date2[4] - 48);
    d2 = (date2[0] - 48) * 10 + (date2[1] - 48);

    if (y1 > y2 || (m1 > m2 && y1 == y2))
    {
        D = d1;
        M = m1;
```

```
Y = y1;

d1 = d2;
m1 = m2;
y1 = y2;

d2 = D;
m2 = M;
y2 = Y;

}

count = 0;

for (i = m1 ; i < (m2 + (y2 - y1) * 12) ; i++)
{

if (i > 12 )
{
    i = 1;
    y1 = y1 + 1;
}

Arr[0] = 31;
if (y1 % 4 == 0 )
{
    Arr[1] = 29;
}
else
{
    Arr[1] = 28;
}
Arr[2] = 31;
Arr[3] = 30;
```

```

        Arr[4] = 31;
        Arr[5] = 30;
        Arr[6] = 31;
        Arr[7] = 31;
        Arr[8] = 30;
        Arr[9] = 31;
        Arr[10] = 30;
        Arr[11] = 31;
        count = count + (Arr[i - 1]);
    }

    count = count + d2 - d1;
    if (count < 0 )
        count = count * -1;
    return count;
}

//*****



int Name_Of_Day()
{
    /* Assuming in 2015 on first january the day was
    thursday. */
    /* Let S-1 M-2 T-3 W-4 T-5 F-6 S-7 */

    char datebuff[20];
    int _day = 5;
    int total_days = 0;

    strcpy(datebuff,"01");
    strcat(datebuff,"/");
    strcat(datebuff,_output(_MM));
}

```

```

        strcat(datebuff,"/");
        strcat(datebuff,_output(_YYYY));
        total_days = No_Of_Days(datebuff, "01/01/2015");

        if(_YYYY>=2015)
        {

            for(int k=1; k<= total_days; k++)
            {
                _day++;
                if(_day> 7)
                    _day = 1;
            }
        }
        else
        {
            for(int k=1; k<= total_days; k++)
            {
                _day--;
                if(_day< 1)
                    _day = 7;
            }
        }

        return _day;
    }

//*****



void WriteDays(int left, int top)
{
    int No_of_days;
    char str[20];

```

```

int _left = left, _top = top;
int _col = 0;
No_of_days = _NumberOfDays((int)_MM, (int)_YYYY);
left = left+(Name_Of_Day()-1)*30;
for(int i=0;i< No_of_days;i++)
{
    if(left >= _left+210)
    {
        left = _left;
        top += 30;
    }
    if(_YYYY == _tempyy && _MM == _tempmm && _DD ==
       i+1)
    {
        setfillstyle(SOLID_FILL,BLUE);
        bar(left-2,top-5,left+15,top+10);
        _col = 1;
    }
    if(_col == 1)
    {
        setcolor(WHITE);
        _col = 0;
    }
    else if(left == _left)
        setcolor(RED);
    else
        setcolor(BLACK);
    outtextxy(left,top,gcvt(i+1,10,str));
    left += 30;
}
//*****

```

```

void Draw()
{
    int left=Left,top=Top;
    int color = RED;
    char str[10];
    char days[][][2]={"S","M","T","W","T","F","S"};
    DrawBox(Left,Top,Width,Height,WHITE);
    setfillstyle(SOLID_FILL,DARKGRAY);
    bar(Left+3,Top+3,Left+Width-3,Top+20);

    for(int i=0;i<7;i++)
    {
        setcolor(color);
        outtextxy(left+10,top+8,days[i]);
        left += 30;
        color = LIGHTGRAY;
    }

    DrawBox(Left,Top-40,Width,40,LIGHTGRAY);
    DrawBox(Left+5,Top-30,Width/2-10,20,WHITE);
    DrawBox(Left+Width/2+5,Top-30,Width/2-
10,20,WHITE);

    DrawCaption(Left+5,Top-30,Width/2-
10,20,gcvt(_YYYY,10,str),BLUE);
    DrawCaption(Left+Width/2+5,Top-30,Width/2-
10,20,month(_MM),BLUE);

}
//*****

```

```

void Init()
{
    char datebuff[9];
    _strdate(datebuff);
    char up[2]={24};
    char down[2]={25};
    char left[2]={27};
    char right[2]={26};
    _YYYY = 2000 + (datebuff[6]-48)*10+datebuff[7]-
        48;
    _MM = (datebuff[0]-48)*10+datebuff[1]-48;
    _DD = (datebuff[3]-48)*10+datebuff[4]-48;
    _tempyy = _YYYY;
    _tempmm = _MM;

    DrawBox(50,30,570,430,LIGHTGRAY);
    DrawBox(50,30,569,20,BLUE);
    DrawBox(150,350,380,102,LIGHTGRAY);
    setcolor(DARKGRAY);
    rectangle(150,350,530,452);

    setcolor(WHITE);
    outtextxy(55,35,"GUI CALENDAR");
    setcolor(0);
    outtextxy(200,370,"Using Keys :");
    outtextxy(202,390,up);
    outtextxy(204,390," : Increase Year,");
    outtextxy(347,390,down);
    outtextxy(349,390," : Decrease Year");
    outtextxy(200,405,right);
    outtextxy(204,405," : Increase Month,");
    outtextxy(347,405,left);
    outtextxy(349,405," : Decrease Month");
}

```

```

        outtextxy(200,420,"Esc : Exit");
    }

//*****



void calendar()
{
    int gd = DETECT,gm;
    int ch;
    initgraph(&gd,&gm,"c://turboc3//bgi"/* path of bgi
                                graphics */);
    Init();
    Draw();
    WriteDays(Left+10,Top+40);
    do{
        ch = getch();
        switch(ch)
        {
            case 27: //Esc
                exit(0);
                break;
            case 72: // up arrow key - year increases
                if(_YYYY < 2070)
                    _YYYY++;
                Draw();
                WriteDays(Left+10,Top+40);
                break;
            case 80: // Down arrow key - year decreases
                if(_YYYY > 1500)
                    _YYYY--;
                Draw();
                WriteDays(Left+10,Top+40);
                break;
        }
    }
}
```

```
    case 77: // right arrow key - month increases

        if(_YYYY < 2070)
            _MM++;

        if(_MM>12 && _YYYY < 2070)
        {
            _MM = 1;
            _YYYY++;
        }

        Draw();
        WriteDays(Left+10,Top+40);
        break;

    case 75: // left arrow key - month decreases
    if(_YYYY>1500)
        _MM--;
    if(_MM < 1 && _YYYY > 1500)
    {
        _MM = 12;
        _YYYY--;
    }
    Draw();
    WriteDays(Left+10,Top+40);
    break;

}

}while(1);

}
```

```
//*****clock*****
#define X 320
#define Y 240
#define R 150
#define PI 3.14159265
#define color CYAN
#define boundary_color LIGHTRED

float angle_sec=0,angle_min=0,angle_hr=0;
int init_sec=0,init_min =0,init_hr=0;
int start_sec=0, start_min=0, start_hr=0;
float x_hr,y_hr,x_min,y_min;

void Draw_Clock()
{
    char
    str[][3]={"12","1","2","3","4","5","6","7","8","9"
              ",","10","11"};
    float angle=0,x,y;

    setcolor(0);
    setfillstyle(SOLID_FILL,0);
    circle(X,Y,3);
    floodfill(X,Y,0);

    setcolor(boundary_color);
    setfillstyle(SOLID_FILL,boundary_color);
    circle(X,Y,R+15);
    floodfill(X+R+3,Y,boundary_color);

    setcolor(color);
    setfillstyle(SOLID_FILL,color);
    circle(X,Y,R);
    floodfill(X,Y,color);
```

```
setcolor(WHITE);

for(int i=1;i<=60;i++)
{
    angle = angle+6*(PI/180);
    x = X+(R-32)*cos(-angle);
    y = Y-(R-32)*sin(-angle);

    if(i%5!=0)
        putpixel(x,y,15);
}

angle = 0;

for(int j=0;j<12;j++)
{
    x = X+(R-30)*sin(angle)-6;
    y = Y-(R-30)*cos(angle);
    angle = angle+(30*(PI/180));
    outtextxy(x,y,str[j]);
}

void Second_Hand()
{
    float x,y,angle,x1,y1;
    char timebuf[9];
    int second;

    _strftime(timebuf);
```

```
second = (timebuf[6]-48)*10+timebuf[7]-48;

if(init_sec==0)
{
    angle_sec = angle_sec+(second*6)*(PI/180);
    angle_sec = angle_sec-6*(PI/180);
    init_sec=1;
    start_sec=second;
}
else
angle_sec = angle_sec+6*(PI/180);
angle = angle_sec-6*(PI/180);

x = X+(R-50)*sin(angle_sec);
y = Y-(R-50)*cos(angle_sec);

x1 = X+(R-50)*sin(angle);
y1 = Y-(R-50)*cos(angle);

setlinestyle(0,3,1);

/* Draw line */

setcolor(BLACK);
line(X,Y,x,y);

/* Erase old line */

setcolor(color);
line(X,Y,x1,y1);

}
```

```
void Minute_Hand(int rotate)
{
    float angle,x1,y1;
    char timebuf[9];
    int minute;

    if(rotate == 1)
    {
        _strftime(timebuf);

        minute = (timebuf[3]-48)*10+timebuf[4]-48;

        if(init_min==0)
        {
            angle_min = angle_min+(minute*6)*(PI/180);
            init_min=1;
            start_min = minute;
        }
        else
            angle_min = angle_min+6*(PI/180);
        angle = angle_min-6*(PI/180);

        x_min = X+(R-50)*sin(angle_min);
        y_min = Y-(R-50)*cos(angle_min);

        x1 = X+(R-50)*sin(angle);
        y1 = Y-(R-50)*cos(angle);

        setlinestyle(0,3,3);

        /* Draw line */
    }
}
```

```
    setcolor(BLACK);
    line(X,Y,x_min,y_min);

    /* Erase old line */

    setcolor(color);
    line(X,Y,x1,y1);

}

else
{
    /* Draw line */

    setcolor(BLACK);
    line(X,Y,x_min,y_min);

}

}

void Hour_Hand(int rotate,int min)
{
    float angle,x1,y1;
    char timebuf[9];
    int hour;

    if(rotate == 1)
    {

        _strftime(timebuf);

        hour = (timebuf[0]-48)*10+timebuf[1]-48;
```

```

if(hour > 12)
hour = hour-12;
start_hr=hour;

if(init_hr==0)
{
angle_hr = angle_hr+((hour*30))*(PI/180);
angle_hr += (min*6)*(PI/180);
init_hr=1;
}
else
angle_hr = angle_hr+6*(PI/180);

angle = angle_hr-6*(PI/180);

x_hr = X+(R-80)*sin(angle_hr);
y_hr = Y-(R-80)*cos(angle_hr);

x1 = X+(R-80)*sin(angle);
y1 = Y-(R-80)*cos(angle);

setlinestyle(0,1,3);

/* Draw line */

setcolor(BLACK);
line(X,Y,x_hr,y_hr);

/* Erase old line */

setcolor(color);
line(X,Y,x1,y1);

}

```

```
    else
    {
        /* Draw line */

        setcolor(BLACK);
        line(X,Y,x_hr,y_hr);
    }

}

void clock1()
{
    int gd = DETECT, gm;
    int _min;
    int degree;
    char timebuff[9];

    initgraph(&gd,&gm,"c://turboc3//bgi"/* path of
bgi graphics*/);

    settextstyle(4,0,4);
    outtextxy(230,20,"Analog Clock");

    settextstyle(0,0,0);

    _strftime(timebuff);
    outtextxy(300,430,timebuff);

    /* Drawing clock, hour hand, minute hand and
    second hand */
}
```

```
Draw_Clock();
Minute_Hand(1);
Second_Hand();

_min = floor(start_min/12);

degree = start_min - (12*_min);

if(degree == 0)
degree = 1;

Hour_Hand(1,_min);

while(1){

for(int j=start_min;j<=60;j++)
{
for(int i=start_sec;i<60;i++)
{
if(kbhit())
{
closegraph();
exit(0);
}
setcolor(WHITE);

_strerror(timebuff);
outtextxy(300,430,timebuff);

/* Drawing dot at center of the clock */

setcolor(0);
```

```
    setfillstyle(SOLID_FILL,0);
    circle(X,Y,3);
    floodfill(X,Y,0);

    /* Drawing hour hand, minute hand and second hand
     */

    Second_Hand();
    Minute_Hand(0);
    Hour_Hand(0,_min);

    delay(1000);

    setcolor(0);
    outtextxy(300,430,timebuff);
}

/* Drawing minute hand after 60 seconds completed
 */

Minute_Hand(1);
start_sec = 0;

degree++;

if(degree %12 ==0)
Hour_Hand(1,_min);

}

start_min=1;
degree = 1;

}
```

```
}
```

```
////////////////////////////////////////////////////////////////////////
```

```
int initmouse()
```

```
{
```

```
i.x.ax=0;
```

```
int86(0x33,&i,&o);
```

```
return(o.x.ax);
```

```
}
```

```
////////////////////////////////////////////////////////////////////////
```

```
void showmouseptr()
```

```
{
```

```
i.x.ax=1;
```

```
int86(0x33,&i,&o);
```

```
}
```

```
////////////////////////////////////////////////////////////////////////
```

```
void hidemouseptr()
```

```
{
```

```
i.x.ax=2;
```

```
int86(0x33,&i,&o);
```

```
}
```

```
void restrictmouseptr(int x1,int y1,int  
x2,int y2)
```

```
{
```

```
i.x.ax=7; i.x.cx=x1; i.x.dx=x2;
```

```
int86(0x33,&i,&o);
```

```
i.x.ax=8; i.x.cx=y1; i.x.dx=y2;
```

```

        int86(0x33,&i,&o);
    }

//*****



void getmousepos(int *button,int *x,int *y)
{
    i.x.ax=3;
    int86(0x33,&i,&o);
    *button=o.x.bx;
    *y=o.x.dx;
    *x=o.x.cx;
}

//*****



void paint()
{
    char col;
    while((col=getch())!='e')
    {
        int gm,maxx,maxy,x,y,button,prevx,prevy;
        maxx=getmaxx();
        maxy=getmaxy();
        clearviewport();
        switch(col)
        {
            case 'r':setcolor(RED);      break;
            case 'g':setcolor(GREEN);    break;
            case 'b':setcolor(BLUE);     break;
            case 'y':setcolor(YELLOW);   break;
            default : setcolor(BLUE);
        }
        char c;

```

```

do
{
    clearviewport();
    rectangle(0,0,maxx,maxy);
    setviewport(1,1,maxx-1,maxy-1,1);
    if(initmouse()==0)
    {
        closegraph();
        restorecrtmode();
        cout<<"mouse driver not loaded";
        exit(1);
    }
    settextstyle(1,HORIZ_DIR,7);
    outtextxy(25,4,"TITAN PAINT");
    restrictmouseptr(1,1,maxx-1,maxy-1);
    showmouseptr();
    while(!kbhit())
    {
        getmousepos(&button,&x,&y);
        if((button&1)==1)
        {
            hidemouseptr();
            prevx=x;      prevy=y;
            while((button&1)==1)
            {
                line(prevx,prevy,x,y);
                prevx=x;
                prevy=y;
                getmousepos(&button,&x,&y);
            }
            showmouseptr();
        }
    }
    c=getch();
}

```

```

        }while(c=='c' || c=='C');
    }
}

//*****NEWS*****
void newsc::news1()
{
    newsc a;
    ifstream fin("news.dat",ios::binary);
    while(fin.read((char *)&a,sizeof(a)))
    {
        cleardevice();

        setbkcolor(BLACK);
        setcolor(YELLOW);
        settextstyle(4,HORIZ_DIR,7);
        outtextxy(40,20,"NEWS CORNER");
        settextstyle(1,0,4);
        outtextxy(40,90,"HEADLINES");
        outtextxy(40,110,"-----");
        outtextxy(30,130,a.h);
        outtextxy(30,160,a.h2);
        outtextxy(30,190,a.t);
        gotoxy(1,16);
        for(int i=0;i<3;i++)
        cout<<a.b[i]<<endl;;
        getch();
    }
}

//*****

```

```
void newsc::modifynews()
{
    newsc a;
    char ch;
    do
    {
        settextstyle(1,0,4);
        outtextxy(250,10,"Modify News");
        settextstyle(1,0,2);
        outtextxy(50,60,"ADD NEWS (A)");
        outtextxy(50,100,"DELETE NEWS (D)");
        char ch1;
        cin>>ch1;
        if(ch1=='A' || ch1=='a')
        {
            cleardevice();
            outtextxy(50,60,"Enter
Headline:");
            gotoxy(5,5);
            gets(a.h);
            outtextxy(50,100,"Enter
Additional Headline:");
            gotoxy(5,8);
            gets(a.h2);
            outtextxy(50,140,"Enter tag
line:");
            gotoxy(5,11);
            gets(a.t);
            outtextxy(50,180,"Enter
content:");
            gotoxy(5,15);
            for(int i=0;i<3;i++)
            gets(a.b[i]);
            ofstream
```

```

        fout("news.dat",ios::binary
|ios::app);
fout.write((char *)&a,sizeof(a));
fout.close();
}
else
{
    news();
    cleardevice();
    outtextxy(50,60,"DELETE NEWS
NUMBER:");
    int ch1,i=0;
    cin>>ch1;
    ifstream
    fin("news.dat",ios::binary);
    ofstream
    fout("temp.dat",ios::binary);
    while(fin.read((char *)&a,
                    sizeof(a)))
    {
        i++;
        if(i!=ch1)
            fout.write((char *)&a,
                        sizeof(a));
    }
    fin.close();
    fout.close();
    remove("news.dat");
    rename("temp.dat","news.dat");
}
cleardevice();
outtextxy(100,40,"Do you want to add
any more news?");
cin>>ch;

```

```

        }while(ch=='y' || ch=='Y');

}

//*****



void news()
{
    newsc b;
    b.news1();
}

//*****



void modifynews()
{
    newsc b;
    b.modifynews();
}

//*****TRICKY TEST *****

void level(char*a)
{
    cleardevice();
    settextstyle(1,HORIZ_DIR,8);
    setcolor(YELLOW);
    outtextxy(100,120,a);
    getch();
}

//*****



void gstuff()
{
    cleardevice();
    settextstyle(3,0,3);
}

```

```
        setbkcolor(BLACK);
    }

//*****



void correct(char *message,int sc)
{
    char b[20];
    cleardevice();
    setbkcolor(BLACK);
    settextstyle(3,0,7);
    outtextxy(150,120,"CORRECT ");
    settextstyle(3,0,3);
    outtextxy(20,250,message);
    itoa(sc,b,10);
    settextstyle(3,0,7);
    outtextxy(150,320,"Score: ");
    outtextxy(350,320,b);
    getch();
}

//*****



void wrong(int sco)
{
    char b[5];
    cleardevice();
    setbkcolor(BLACK);
    settextstyle(3,0,8);
    outtextxy(60,120,"INCORRECT ");
    itoa(sco,b,10);
    settextstyle(3,0,6);
    outtextxy(150,320,"Score: ");
    outtextxy(300,320,b);
```

```

        getch();
    }

//*****



void tricky()
{
    char b[20];
    int score=0;
    setbkcolor(BLACK);

    cleardevice();
    settextstyle(1,HORIZ_DIR,8);
    setcolor(YELLOW);
    outtextxy(60,120,"TRICKY TEST");
    setfillstyle(EMPTY_FILL,0);
    bar3d(100,350,540,400,0,1);
    settextstyle(1,HORIZ_DIR,5);
    outtextxy(260,348,"START");
    settextstyle(1,HORIZ_DIR,2);
    outtextxy(230,410,"PRESS S TO START");
    char ch=getch();
    if(ch=='s' | | ch=='S')
    {
        int wrongans=0;
        level("LEVEL 1");
        do
        {
            wrongans=0;           gstuff();
            outtextxy(30,35,"Question:If you look at
            the clock and the time is 3:15 ");
            outtextxy(30,65,"what is the angle
            between hour and minute hands??? " );
            outtextxy(30,135,"A: 0 degree " );

```

```

        outtextxy(240,135,"B: 15 degree");
        outtextxy(30,185,"C: 7.5 degree" );
        outtextxy(240,185,"D: 22.5 degree");
        outtextxy(30,300,"Enter Your Answer: ");
        char c,a[2];
        do
        {
            c=getch();
            c=toupper(c);
        }while(c != 'A'&&c != 'B'&&c != 'C'&&c != 'D');

        a[0]=c;a[1]=0;
        outtextxy(275,300,a);
        if(c=='C')
        {
            score+=10;
            correct("REASON:THE HOUR HAND WILL
NOT POINT TO 3",score);
        }
        else
        {
            score-=10;
            wrongans=1;
            wrong(score);
        }
    }while(wrongans);

    level("LEVEL 2");

    do
    {
        wrongans=0;           gstuff();
        outtextxy(30,35,"Question: how many times
a day does a clock's ");

```

```

        outtextxy(30,65,"hands overlap??? " );
        outtextxy(30,135,"A: 21   ");
        outtextxy(240,135,"B: 22");
        outtextxy(30,185,"C: 23   ");
        outtextxy(240,185,"D: 24");
        outtextxy(30,300,"Enter Your Answer: ");
        char c,a[2];
        do
        {
            c=getch();
            c=toupper(c);
        }while(c!='A'&&c!='B'&&c!='C'&&c!='D');
        a[0]=c;a[1]=0;
        outtextxy(275,300,a);
        if(c=='B')
        {
            score+=10;
            correct("REASON:take a clock and
            count!!!",score);
        }
        else
        {
            score-=10;
            wrongans=1;
            wrong(score);
        }
    }while(wrongans);

    level("LEVEL 3");

    do
    {
        wrongans=0;      gstuff();
        outtextxy(30,35,"Question:A man was born

```

```

        in 1948 and he recently ");
        outtextxy(30,65,"celebrated his 17th bday
which month would have he born???" );
        outtextxy(30,135,"A: Dec   ");
        outtextxy(240,135,"B: Aug");
        outtextxy(30,185,"C: Jan" );
        outtextxy(240,185,"D: Feb");
        outtextxy(30,300,"Enter Your Answer: ");
        char c,a[2];
        do
        {
            c=getch();
            c=toupper(c);
        }while(c!='A'&&c!='B'&&c!='C'&&c!='D');
        a[0]=c;a[1]=0;
        outtextxy(275,300,a);
        if(c=='D')
        {
            score+=10;
            correct("REASON:HE MIGHT HAVE BORN ON
29/FEB/1948",score);
        }
        else
        {
            score-=10;
            wrongans=1;
            wrong(score);
        }
    }while(wrongans);

    level("LEVEL 4");

    do
    {

```

```

wrongans=0;      gstuff();
outtextxy(30,35,"Question:How many bdays
an average man has??");
outtextxy(30,65,"          " );
outtextxy(30,135,"A: 90   " );
outtextxy(240,135,"B: 1" );
outtextxy(30,185,"C: 10   " );
outtextxy(240,185,"D: 67" );
outtextxy(30,300,"Enter Your Answer: " );
char c,a[2];
do
{
    c=getch();
    c=toupper(c);
}while(c != 'A' && c != 'B' && c != 'C' && c != 'D' );
a[0]=c;a[1]=0;
outtextxy(275,300,a);
if(c=='B')
{
    score+=10;
    correct("REASON:A MAN CAN BE BORN
ONLY ONCE!!!",score);
}
else
{
    score-=10;
    wrongans=1; wrong(score);
}
}while(wrongans);

level("LEVEL 5");

do
{

```

```

wrongans=0;      gstuff();
outtextxy(30,35,"Question:Some months
have 31 days how many ");
outtextxy(30,65,"months have 30 days?");
outtextxy(30,135,"A: 5 ");
outtextxy(240,135,"B: 7 ");
outtextxy(30,185,"C: 9 ");
outtextxy(240,185,"D: 11");
outtextxy(30,300,"Enter Your Answer: ");
char c,a[2];
do
{
    c=getch();
    c=toupper(c);
}while(c != 'A' && c != 'B' && c != 'C' && c != 'D');
a[0]=c;a[1]=0;
outtextxy(275,300,a);
if(c=='D')
{
    score+=10;
    correct("REASON:months other than feb
have days>=30",score);
}
else
{
    score-=10;
    wrongans=1; wrong(score);
}
}while(wrongans);

level("LEVEL 6");

do
{

```

```

wrongans=0;      gstuff();
outtextxy(30,35,"Question: What no. comes
in the sequence ");
outtextxy(30,65,"4 , 12 , 28 , 60 , ?");
outtextxy(30,135,"A: 124   ");
outtextxy(240,135,"B: 88");
outtextxy(30,185,"C: 102   ");
outtextxy(240,185,"D: 140");
outtextxy(30,300,"Enter Your Answer: ");
char c,a[2];
do
{
    c=getch();
    c=toupper(c);
}while(c != 'A' && c != 'B' && c != 'C' && c != 'D');
a[0]=c;a[1]=0;
outtextxy(275,300,a);
if(c=='A')
{
    score+=10;
    correct("REASON:60*2+4=12!!!",score);
}
else
{
    score-=10;
    wrongans=1; wrong(score);
}
}while(wrongans);

level("LEVEL 7");

do
{
    wrongans=0;      gstuff();

```

```

        outtextxy(30,35,"Question: how many
bricks does it take to complete ");
        outtextxy(30,65," a building made of
bricks?? " );
        outtextxy(30,135,"A: infinity " );
        outtextxy(240,135,"B:10000");
        outtextxy(30,185,"C: 1 " );
        outtextxy(240,185,"D: 99999");
        outtextxy(30,300,"Enter Your Answer: ");
        char c,a[2];
        do
        {
            c=getch();
            c=toupper(c);
        }while(c != 'A' && c != 'B' && c != 'C' && c != 'D');
        a[0]=c;a[1]=0;
        outtextxy(275,300,a);
        if(c=='C')
        {
            score+=10;
            correct("REASON:the last brick is
needed to complete!!!",score);
        }
        else
        {
            score-=10;
            wrongans=1;  wrong(score);
        }
    }while(wrongans);

    level("LEVEL 8");

    do
    {

```

```

wrongans=0;      gstuff();
outtextxy(15,35,"Question:An electric
train moves towards north with speed");
outtextxy(15,65," of 100mph and wind blow
in the direction of west with");
outtextxy(15,95,"same speed then in which
direction does the smoke blow???" );
outtextxy(30,195,"A: Not visible " );
outtextxy(240,195,"B: North west");
outtextxy(30,255,"C: North east " );
outtextxy(240,255,"D: South west");
outtextxy(30,350,"Enter Your Answer: " );
char c,a[2];
do
{
    c=getch();
    c=toupper(c);
}while(c!='A'&&c!='B'&&c!='C'&&c!='D');
a[0]=c;a[1]=0;
outtextxy(275,350,a);
if(c=='A')
{
    score+=10;
    correct("REASON:electric engine can't
produce smoke!!!",score);
}

else
{
    score-=10;
    wrongans=1;  wrong(score);
}
}while(wrongans);

```

```

level("LEVEL 9");

do
{
    wrongans=0;      gstuff();
    outtextxy(15,35,"Question:if it took 8
men 10 months to build a house how");
    outtextxy(15,65,"long will it take for 4
men to build the same house??? " );
    outtextxy(30,135,"A: 20 months " );
    outtextxy(300,135,"B: 5 months");
    outtextxy(30,185,"C: less than 1 month");
    outtextxy(300,185,"D: 10 months");
    outtextxy(30,300,"Enter Your Answer: ");
    char c,a[2];
    do
    {
        c=getch();
        c=toupper(c);
    }while(c!='A'&&c!='B'&&c!='C'&&c!='D');
    a[0]=c;a[1]=0;
    outtextxy(275,300,a);
    if(c=='C')
    {
        score+=10;
        correct("REASON:the house is already
built!!!",score);
    }
    else
    {
        score-=10;
        wrongans=1;  wrong(score);
    }
}while(wrongans);

```

```

level("LEVEL 10");

do
{
    wrongans=0;      gstuff();
    outtextxy(30,35,"Question: I'm an odd
number when you remove an");
    outtextxy(30,65,"alphabet, I become even
then guess who I am???" );
    outtextxy(30,135,"A: 9 ");
    outtextxy(240,135,"B: 7");
    outtextxy(30,185,"C: 11 " );
    outtextxy(240,185,"D: 5");
    outtextxy(30,300,"Enter Your Answer: ");
    char c,a[2];
    do
    {
        c=getch();
        c=toupper(c);
    }while(c != 'A' && c != 'B' && c != 'C' && c != 'D');
    a[0]=c;a[1]=0;
    outtextxy(275,300,a);
    if(c=='B')
    {
        score+=10;
        correct("REASON:seven.remove s.it
becomes even!!!",score);
    }
    else
    {
        score-=10;
        wrongans=1;  wrong(score);
    }
}

```

```

}while(wrongans);

level("LEVEL 11");

do
{
    wrongans=0;      gstuff();
    outtextxy(30,35,"Question: If you have 4
apples and you take away ");
    outtextxy(30,65,"3 from them, how many do
you have??? " );
    outtextxy(30,135,"A: 1 " );
    outtextxy(240,135,"B: 2");
    outtextxy(30,185,"C: 3 " );
    outtextxy(240,185,"D: 4");
    outtextxy(30,300,"Enter Your Answer: ");
    char c,a[2];
    do
    {
        c=getch();
        c=toupper(c);
    }while(c!='A'&&c!='B'&&c!='C'&&c!='D');
    a[0]=c;a[1]=0;
    outtextxy(275,300,a);
    if(c=='C')
    {
        score+=10;
        correct("REASON:3.because you took
only 3!!!",score);
    }
    else
    {
        score-=10;
        wrongans=1;  wrong(score);
    }
}

```

```

        }
    }while(wrongans);

level("LEVEL 12");

do
{
    wrongans=0;      gstuff();
    outtextxy(25,35,"Question:If there were
13 rooster eggs farmer took");
    outtextxy(25,65," 4eggs,4 eggs were
rotten,how many were left???" );
    outtextxy(30,135,"A: 9 " );
    outtextxy(240,135,"B: 5");
    outtextxy(30,185,"C: 13 " );
    outtextxy(240,185,"D: 0");
    outtextxy(30,300,"Enter Your Answer: ");
    char c,a[2];
    do
    {
        c=getch();
        c=toupper(c);
    }while(c != 'A' && c != 'B' && c != 'C' && c != 'D');
    a[0]=c;a[1]=0;
    outtextxy(275,300,a);
    if(c=='D')
    {
        score+=10;
        correct("REASON: Roosters don't lay
eggs!!!",score);
    }
    else
    {
        score-=10;
    }
}

```

```

        wrongans=1;  wrong(score);
    }
}while(wrongans);

level("LEVEL 13");

do
{
    wrongans=0;      gstuff();
    outtextxy(30,35,"Question: If there are
12 fishes and half of   ");
    outtextxy(30,65,"them drown,then how many
are left??? " );
    outtextxy(30,135,"A: 12   ");
    outtextxy(240,135,"B: 6");
    outtextxy(30,185,"C: 2   ");
    outtextxy(240,185,"D: 8");
    outtextxy(30,300,"Enter Your Answer: ");
    char c,a[2];
    do
    {
        c=getch();
        c=toupper(c);
    }while(c != 'A' && c != 'B' && c != 'C' && c != 'D');
    a[0]=c;a[1]=0;
    outtextxy(275,300,a);
    if(c=='A')
    {
        score+=10;
        correct("  REASON : Fishes do not
drown!!!",score);
    }
    else
    {

```

```

        score-=10;
        wrongans=1;  wrong(score);
    }
}while(wrongans);

level("BONUS");

wrongans=0;      gstuff();
outtextxy(30,35,"Question: IN WHICH STATE
DOES BAY OF BENGAL FLOW??");
outtextxy(30,100,"A: WEST BENGAL ORISSA   ");
outtextxy(240,150,"B:TAMILNADU,AP&TELANGANA");
outtextxy(30,200,"C: GOA KERALA KARNATAKA" );
outtextxy(240,250,"D:BOTH A AND B");
outtextxy(30,300,"Enter Your Answer: ");
char aa[2];
char d;
do
{
    d=getch();
    d=toupper(d);
}while(d!='A'&&d!='B'&&d!='C'&&d!='D');
aa[0]=d;aa[1]=0;
outtextxy(275,300,aa);
if(d=='E')
{
    char b[5];
    score+=10;
    cleardevice();
    settextstyle(3,0,8);
    outtextxy(80,120,"CORRECT ");
    itoa(score,b,10);
    settextstyle(3,0,6);
    outtextxy(150,320,"Score: ");
}

```

```

        outtextxy(350,320,b);
        getch();
    }
    else
    {
        cleardevice();
        settextstyle(3,0,8);
        outtextxy(60,120,"incorrect");
        itoa(score,b,10);
        settextstyle(3,0,4);
        outtextxy(100,260,"CORRECTANS::IT FLOWS");
        outtextxy(100,320," IN LIQUID STATE");
        getch();
    }

level("BONUS");
wrongans=0;      gstuff();
outtextxy(30,35,"Question: What has cities
but no house;forest");
outtextxy(30,65,"but no trees;water but no
fishes");
outtextxy(30,100,"A: Africa   ");
outtextxy(240,150,"B: Antarctica");
outtextxy(30,200,"C: Europe   ");
outtextxy(240,250,"D: BOTH A AND B");
outtextxy(30,300,"Enter Your Answer: ");
char ab[2];
char c1;
do
{
    c1=getch();
    c1=toupper(c1);
}while(c1!='A'&&c1!='B'&&c1!='C'&&c1!='D');
ab[0]=c1;ab[1]=0;

```

```

        outtextxy(275,300,aa);
        if(c1=='E')
        {
            score+=10;
            correct("",score);
        }
        else
        {
            wrongans=1;
            cleardevice();

            settextstyle(3,0,8);
            outtextxy(60,120,"incorrect");
            itoa(score,b,10);
            settextstyle(3,0,4);
            outtextxy(100,320,"CORRECT ANS:: A Map");
            getch();
        }

        level("LEVEL 14");

        do
        {
            wrongans=0;      gstuff();
            outtextxy(30,35,"Question: There was a
            plane crash every single person died");
            outtextxy(30,65,"Then who survived???");
            outtextxy(30,100,"A: Justin Bieber" );
            outtextxy(240,150,"B: Trump");
            outtextxy(30,200,"C: newton" );
            outtextxy(240,250,"D:tesla");
            outtextxy(30,300,"Enter Your Answer: ");
            char ac[2];  char c2;
            do

```

```

{
    c2=getch();
    c2=toupper(c2);
}while(c2!='A'&c2!='B'&c2!='C'&c2!='D');
ac[0]=c2;ac[1]=0;
outtextxy(275,300,aa);
if(c2=='B')
{
    score+=10;
    correct("REASON:TRUMP WAS MARRIED!!!!"
    , score);
}
else
{
    score-=10;
    wrongans=1;  wrong(score);
}
}while(wrongans);

cleardevice();
settextstyle(1,HORIZ_DIR,5);
setcolor(YELLOW);
itoa(score,b,10);
outtextxy(20,50,"YOUR SCORE IS :");
outtextxy(350,50,b);
if(score>=130)
outtextxy(20,250,"YOU ARE GENIUS!!!!");
else if(score>=110)
outtextxy(20,250,"YOU ARE VERY SUPERIOR!!!!");
else if(score>=90)
outtextxy(20,250,"YOU ARE SUPERIOR!!!!");
else if(score>=60)
outtextxy(20,250,"YOU ARE NORMAL!!!!");
else if(score>=30)

```

```

        outtextxy(20,250,"YOU ARE DULL!!!");
    else
        outtextxy(20,250,"YOU ARE STUPID!!!");
    getch();
}
}

//*****LOADING BAR*****

void load()
{
    cleardevice();
    setbkcolor(BLACK);
    setcolor(YELLOW);
    int x=170;
    settextstyle(DEFAULT_FONT,HORIZ_DIR,2);
    outtextxy(170,180,"LOADING, PLEASE WAIT");
    for(int i=0;i<300;++i)
    {
        if(i%10==0) delay(15);
        delay(15);
        line(x,200,x,220);
        x++;
    }
    delay(500);
    cleardevice();
}

//*****KOLLY WOOD GAME*****

```

```

void kollywood()
{
film a[10]={"NAYAGAN", "MANI RATNAM", "KAMAL HAASAN",
    "SIVAJI", "SHANKAR", "RAJINIKANTH",
    "THUPPAKKI", "A.R.MURUGADOSS", "VIJAY",
    "BOMBAY", "MANI RATNAM", "ARWIND SWAMY",
    "SINGAM", "HARI", "SURIYA",
    "PARUTHIVEERAN", "AMEER SULTAN", "KARTHI",
    "VISARANAI", "VETRIMAARAN", "DINESH",
    "BAAHUBALI", "SS RAJAMOULI", "PRABHAS",
    "THERI", "ATLEE", "VIJAY",
    "AADUKALAM", "VETRIMAARAN", "DHANUSH"};
cleardevice();
load();
setbkcolor(BLACK);
settextstyle(1,HORIZ_DIR,8);
setcolor(YELLOW);
outtextxy(80,120,"KOLLY WOOD");
setfillstyle(EMPTY_FILL,0);
bar3d(100,350,540,400,0,1);
settextstyle(1,HORIZ_DIR,5);
outtextxy(260,348,"START");
settextstyle(1,HORIZ_DIR,2);
outtextxy(230,410,"PRESS S TO START");
char ch=getch();
if(ch=='s' || ch=='S')
{
    cleardevice();
    setbkcolor(BLACK);
    gotoxy(27,2);
    cout<<"HELP TO PLAY GAME";
    delay(350);
    gotoxy(10,6);
    cout<<"1). AN ENTERTAINING GAME FOR ONE

```

```

        PLAYER.";

delay(350);
gotoxy(10,8);
cout<<"2).The Objective of Kollywood game is
to make gamer aware of the latest movies.";
delay(350);
gotoxy(10,10);
cout<<"3). Player has to guess the movie
based on the clue.";
delay(350);
gotoxy(10,12);
cout<<"4).Second clue will be revealed after
5 wrong guesses ";
delay(350);
gotoxy(10,16);
getch();

for(int m1=0;m1<10;m1++)
{
    char y[20];
    int k1=0;
    setfillstyle(SOLID_FILL,5);
    cleardevice();
    setbkcolor(RED);
    settextstyle(1,HORIZ_DIR,7);
    setcolor(YELLOW);
    outtextxy(60,50,"! KOLLY WOOD !");
    outtextxy(60,95,"-----");
    settextstyle(7,0,3);
    setfillstyle(SOLID_FILL,DARKGRAY);
    bar(0,430,400,480);
    outtextxy(30,440,"titan game developers
inc.");
    int k=m1;
}

```

```

int flag=0;
char z[20];
for(int i=0;i<strlen(a[k].n);i++)
z[i]='_';
z[i]=0;
settextstyle(2,0,10);
outtextxy(100,200,z);
outtextxy(100,350,"DIRECTOR : ");
outtextxy(350,350,a[k].h1);
char b[10]="KOLLYWOOD";
char d[10]={0};
for(int j=0;flag!=9;j++)
{
    int s5=0;
    char c;
    do
    {
        s5=0;
        c=toupper(getch());
        for(int i=0;i<k1;i++)
        if(c==y[i])
        s5++;
    }while(s5);
    y[k1++]=c;
    int tp;
    tp=0;
    for(int w=0;w<strlen(a[k].n);w++)
    {
        if(c==a[k].n[w])
        {
            z[w]=c;
            tp++;
            outtextxy(100,200,z);
        }
    }
}

```

```

        }
        for(w=0;w<1&&!tp;w++)
        {
            d[flag]=b[flag];
            d[++flag]='\0';
            outtextxy(100,275,d);
            if(flag==5)
            {
                outtextxy(100,385,"ACTOR : ");
                outtextxy(300,385,a[k].h2);
            }
            if(flag==9)
            scorn++;
            if(strcmpi(z,a[k].n)==0)
            {
                delay(500);
                break;
            }
        }
    }
}

//*****



void kolly()
{
    int a,b,c;
    cleardevice();
    kollywood();
    cleardevice();
    outtextxy(110,160,"YOUR SCORE IS : : ");
    settextstyle(7,0,8);
}

```

```

    char scor[20];
    itoa(100*(10-scorn),scor,10);
    outtextxy(110,180,scor);
    getch();
}

//*****QUIZ*****
void quiz()
{
    cleardevice();
    load();
    cleardevice();
    setbkcolor(BLACK);
    setcolor(YELLOW);
    settextstyle(4,HORIZ_DIR,10);
    outtextxy(240,80,"Quiz");
    settextstyle(1,0,4);
    outtextxy(300,240,"Press S to start ");
    char s1;
    s1=getch();
    cleardevice();
    if(s1=='s'||s1=='S')
    {
        qu q;
        int cr[20]={0},ic=0;
        int k2=0,s2[50];
        randomize();
        char b1[20][20];
        int v=1,d=0;
        ifstream fin("QUIZ.dat",ios::binary);
        fin.seekg(0,ios::end);
        int p=fin.tellg()/sizeof(q);
        while(v)
    }
}

```

```

{
    int k4=1,k10;
    ic=0;
    cleardevice();
    fflush(stdin);
    outtextxy(20,30,"Enter Player name :
");
    gotoxy(14,5);
    gets(b1[d]);
    while((ic+cr[d])<10)
    {
        int k9=0,x;
        do
        {
            k9=0;
            x=random(p);
            for(int k3=0;k3<k2;k3++)
            if(s2[k3]==x)
                k9++;
        }while(k9);
        s2[k2++]=x;
        settextstyle(1,0,2);
        char y;
        cleardevice();
        fin.seekg((x)*sizeof(q));
        fin.read((char *)&q,sizeof(q));
        outtextxy(10,20,"Question : ");
        settextstyle(1,0,1);
        outtextxy(150,20,capitalise(q.a));
        settextstyle(1,0,2);
        outtextxy(20,60,"Options : ");
        randomize();
        do
        {

```

```

        k4=random(4);
    }while(k4==k10);
    k10=k4;
    outtextxy(150,60,"A .");
    outtextxy(150,100,"B .");
    outtextxy(150,140,"C .");
    outtextxy(150,180,"D .");
    int k3;
    switch(k4)
    {
        case 0: for(k3=0;k3<4;k3++)
                  outtextxy(200,60+k3*40,
                  capitalise(q.b[k3]));
                  break;
        case 1: outtextxy(200,60,
                  capitalise(q.b[1]));
                  outtextxy(200,100,
                  capitalise(q.b[0]));
                  for(k3=2;k3<4;k3++)
                  outtextxy(200,60+k3*40,
                  capitalise(q.b[k3]));
                  break;
        case 2: outtextxy(200,60,
                  capitalise(q.b[1]));
                  outtextxy(200,100,
                  capitalise(q.b[2]));
                  outtextxy(200,140,
                  capitalise(q.b[0]));
                  outtextxy(200,180,
                  capitalise(q.b[3]));
                  break;
        case 3:for(k3=1;k3<4;k3++)
                  outtextxy(200,60+(k3-1)*40,
                  capitalise(q.b[k3]));
    }

```

```

        outtextxy(200,180,
        capitalise(q.b[0]));
        break;
    }

    outtextxy(30,245,"Your Answer : ");
    gotoxy(30,17);
    cin>>y;
    if(y!='A'+k4&&y!='a'+k4)
    {
        ic++;
        outtextxy(20,290,"Sorry you got
        it WRONG!!");
        outtextxy(20,325,"Expected Answer
        : ");
        gotoxy(30,22);
        cout<<char('A'+k4);
    }
    else
    {
        cr[d]++;
        outtextxy(20,300,"Congratulations
        you got it RIGHT!!");
    }
    outtextxy(20,358,"Correct : ");
    gotoxy(17,24);
    cout<<cr[d]<<"/10 ";
    outtextxy(250,358,"Incorrect : ");
    gotoxy(50,24);
    cout<<ic<<"/10";
    getch();
}
cleardevice();
outtextxy(100,50,"Do you want to play

```

```

        another round?");

    gotoxy(45,5);
    char e=getchar();
    if(e=='y' || e=='Y')
        v++;
    else v=0;
    d++;
}

cleardevice();
outtextxy(250,50,"High Scores");
char _cr[20];
high b[10];
for(int h=0; h<d; h++)
{
    strcpy(b[h].name,b1[h]);
    b[h].score=100*_cr[h];
}
for(h=0; h<d-1; h++)
{
    int max=b[h].score,k=h;
    for(int j=h+1; j<d; j++)
        if(max<b[j].score)
    {
        max=b[j].score;
        k=j;
    }
    c=b[h];
    b[h]=b[k];
    b[k]=c;
}
outtextxy(40,75,"YOUR SCORES :");
for(h=0; h<d; h++)
{
    itoa(b[h].score,_cr,10);
}

```

```

        outtextxy(50,100+50*h,"Player ");
        outtextxy(200,100+50*h,b[h].name);
        outtextxy(400,100+50*h,: );
        outtextxy(450,100+50*h,_cr);
    }
ifstream f("QUSC.dat",ios::binary);
int l=0;
outtextxy(40,100+50*h++,"PREVIOUSSCORES :");
while(f.read((char *)&a,sizeof(a)))
{
    itoa(a.score,_cr,10);
    outtextxy(50,100+50*h,"Player ");
    outtextxy(200,100+50*h,a.name);
    outtextxy(400,100+50*h,: );
    outtextxy(450,100+50*h,_cr);
    h++;
    l++;
    b[l+d]=a;
}
d+=l;
for(h=0; h<d-1; h++)
{
    int max=b[h].score,k=h;
    for(int j=h+1; j<d; j++)
        if(max<b[j].score)
    {
        max=b[j].score;
        k=j;
    }
    c=b[h];
    b[h]=b[k];
    b[k]=c;
}
for(h=0;h<d;h++)

```

```

        for(int j=h+1;j<d;j++)

    if(strcmp(b[h].name,b[j].name)==0&&
        b[h].score>=b[j].score)
    {
        for(int k=j;k<d-1;k++)
            b[k]=b[k+1];
        d--;
        j--;
    }
    f.close();
    fin.close();
    remove("QUSC.dat");
    ofstream fout("QUSC.dat",ios::binary);
    for(h=0;h<d;h++)
        fout.write((char *)&b[h],sizeof(b[h]));
    fout.close();
}
else if(s1=='h'||s1=='H')
{
    cleardevice();
    outtextxy(250,50,"High Scores");
    char _cr[20];
    ifstream f("QUSC.dat",ios::binary);
    int h=0;
    while(f.read((char *)&a,sizeof(a)))
    {
        itoa(a.score,_cr,10);
        outtextxy(50,200+50*h,"Player ");
        outtextxy(200,200+50*h,a.name);
        outtextxy(400,200+50*h,: );
        outtextxy(450,200+50*h,_cr);
        h++;
    }
}

```

```

        f.close();
        char ch=getch();
        if(ch=='q'||ch=='Q')
            quiz();
    }
    getch();
}

//*****CHANGE PASSWORD*****
void change()
{
ofstream
fout("Quiz.dat",ios::binary|ios::app|ios::nocreate);
    qu q;
    char ch;
    do
    {
        cleardevice();
        outtextxy(100,50,"Enter Question : ");
        gotoxy(20,5);
        gets(q.a);
        outtextxy(100,100,"Enter Options : ");
        for(int i=0;i<4;i++)
        {
            gotoxy(20,9+2*i);
            gets(q.b[i]);
        }
        fout.write((char *)&q,sizeof(q));
        cleardevice();
        settextstyle(1,0,3);
        outtextxy(100,150,"Do you want to add any
more questions ?");
        ch=getchar();
    }
}

```

```

        }while(ch=='y' || ch=='Y');
        fout.close();
    }

//*****MIND MAZE*****
void mind()
{
    cleardevice();
    setbkcolor(BLACK);
    gotoxy(27,2);
    cout<<"HELP TO PLAY GAME";
    delay(350);
    gotoxy(10,6);
    cout<<"1). A MEMORY GAME FOR ONE PLAYER.";
    delay(350);
    gotoxy(10,8);
    cout<<"2). The Objective of MIND MAZE is to
check the memory of the player";
    delay(350);
    gotoxy(10,10);
    cout<<"3). Player has to remember the char
displayed on first screen and must enter it
on 2 nd";
    delay(350);
    gotoxy(10,12);
    cout<<"4). The game includes 2 levels ";
    delay(350);
    gotoxy(10,16);
    getch();

    cleardevice();
    int i;
    load();
}

```

```

setbkcolor(BLACK);
char c[2],d[11],scor[10];
int score=0;
settextstyle(4,HORIZ_DIR,8);
setcolor(YELLOW);
outtextxy(80,120,"MIND MAZE");

setfillstyle(EMPTY_FILL,0);
bar3d(100,350,540,400,0,1);
settextstyle(1,HORIZ_DIR,5);
outtextxy(260,348,"START");
settextstyle(1,HORIZ_DIR,2);
outtextxy(230,410,"PRESS S TO START");

char ch=getch();
if(ch=='s'||ch=='S')
{
    cleardevice();
    setfillstyle(SOLID_FILL,RED);
    for(i=1;i<=8;i++)
    {
        setfillstyle(SOLID_FILL,5);
        cleardevice();
        setbkcolor(RED);
        settextstyle(4,HORIZ_DIR,6);

        setcolor(YELLOW);
        outtextxy(80,60,"! MIND MAZE !");
        outtextxy(80,95,"= ===== = ");

        settextstyle(7,0,3);
        setfillstyle(SOLID_FILL,DARKGRAY);
        bar(0,430,400,480);
        outtextxy(30,440,"titan game developers

```

```

inc.");
setfillstyle(SOLID_FILL,CYAN);

bar(400,350,640,480);
outtextxy(410,360,"YOUR SCORE IS : : ");
score+=(i-1)*100;
itoa(score,scor,10);
settextstyle(7,0,8);
outtextxy(410,380,scor);

setfillstyle(SOLID_FILL,MAGENTA);
for(int m=0;m<i;m++)
bar(80*m+10,193,80*(m+1),270);
char a[20];
char b[40]={' '};
randomize();
for(m=0;m<i;m++)
{
    a[m]=random(10)+48;
}
a[m]=0;

int x=20,d1=0;
settextstyle(7,0,6);
for(int x1=0;a[d1];x1+=2)
b[x1]=a[d1++];
b[x1]=0;

for(int i1=0;b[i1];i1+=2)
{
    moveto(40*i1+25,190);
    c[0]=b[i1];
    c[1]=0;
    outtext(c);
}

```

```

        delay(125);
        x+=50;
    }
delay(2000);

cleardevice();
setbkcolor(RED);
settextstyle(4,HORIZ_DIR,6);
setcolor(YELLOW);
setfillstyle(SOLID_FILL,8);
outtextxy(80,60,"! MIND MAZE !");
outtextxy(80,95,"= ======");
settextstyle(7,0,3);
setfillstyle(SOLID_FILL,CYAN);
bar(0,430,400,480);

outtextxy(30,440,"titan game developers
inc.");

setfillstyle(SOLID_FILL,MAGENTA);

bar(400,350,640,480);
outtextxy(410,360,"YOUR SCORE IS : : ");

settextstyle(7,0,8);
outtextxy(410,380,scor);
setfillstyle(SOLID_FILL,DARKGRAY);
for(m=0;m<i;m++)
bar(80*m+10,193,80*(m+1),270);
settextstyle(7,0,6);

for(i1=0;i1<2*i;i1+=2)
{
    moveto(40*i1+25,190);
}

```

```
d[i1/2]=getch();
c[0]=d[i1/2];
c[1]=0;
outtext(c);
delay(125);
x+=0;
}
d[i1/2]=0;

if(strcmpi(a,d)!=0)
{
    cleardevice();
    int wrong[]={

        90+40,100-30,
        180+40,100-30,
        270+40,220-30,
        360+40,100-30,
        450+40,100-30,
        340+40,250-30,
        450+40,400-30,
        360+40,400-30,
        360+40,400-30,
        270+40,280-30,
        180+40,400-30,
        90+40,400-30,
        200+40,250-30,
        90+40,100-30
    };
    setbkcolor(DARKGRAY);
    setfillstyle(1,RED);
    drawpoly(14,wrong);
    fillpoly(14,wrong);
    settextstyle(7,0,7);
    setcolor(RED);
```

```

        outtextxy(120,370,"INCORRECT!!!...");  

        delay(1500);  

        break;  

    }  

    else  

    {  

        cleardevice();  

        int tick[]={  

            150,150,  

            220,270,  

            500,140,  

            520,210,  

            200,320,  

            100,170,  

            150,150
        };  

        setfillstyle(1,GREEN);  

        drawpoly(7,tick);  

        fillpoly(7,tick);  

        settextstyle(7,0,7);  

        setcolor(GREEN);  

        outtextxy(160,370,"CORRECT!!!...");  

        delay(1500);  

        continue;
    }
}

getch();
if(i==9)
{
    cleardevice();
    settextstyle(4,HORIZ_DIR,8);
    setcolor(YELLOW);
}

```

```

outtextxy(80,120,"MIND MAZE");
settextstyle(7,0,7);
outtextxy(200,250,"LEVEL 2");
setfillstyle(EMPTY_FILL,0);
bar3d(100,350,540,400,0,1);
settextstyle(1,HORIZ_DIR,5);
outtextxy(260,348,"START");
settextstyle(1,HORIZ_DIR,2);
outtextxy(230,410,"PRESS S TO START");
ch=getch();
if(ch=='s' || ch=='S')
{
    cleardevice();
    setfillstyle(SOLID_FILL,RED);
    for(int i=1;i<=8;i++)
    {
        setfillstyle(SOLID_FILL,DARKGRAY);
        cleardevice();
        setbkcolor(RED);
        settextstyle(4,HORIZ_DIR,6);
        setcolor(YELLOW);
        outtextxy(80,60,"! MIND MAZE !");
        outtextxy(80,95,"= ===== = ");
        setfillstyle(SOLID_FILL,DARKGRAY);
        bar(0,430,400,480);
        settextstyle(7,0,3);
        outtextxy(30,440,"titan game
developers inc.");
        setfillstyle(SOLID_FILL,MAGENTA);
        bar(400,350,640,480);
        outtextxy(410,360,"YOURSCOREIS: : ");
        score+=(i-1)*100;
        itoa(score,scor,10);
        settextstyle(7,0,8);
    }
}

```

```

outtextxy(410,380,scor);
setfillstyle(SOLID_FILL,CYAN);
for(int m=0;m<i;m++)
bar(80*m+10,193,80*(m+1),270);
char a[20];
char b[40]={ ' '};
randomize();
for(m=0;m<i;m++)
{
    a[m]=random(26)+97;
}
a[m]=0;

int x=20,d1=0;
settextstyle(7,0,6);
for(int x1=0;a[d1];x1+=2)
b[x1]=a[d1++];
b[x1]=0;

for(int i1=0;b[i1];i1+=2)
{
    moveto(40*i1+25,190);
    c[0]=b[i1];
    c[1]=0;
    outtext(c);
    delay(125);
    x+=50;
}
delay(2000);

cleardevice();
setbkcolor(RED);
settextstyle(4,HORIZ_DIR,6);
setcolor(YELLOW);

```

```

setfillstyle(SOLID_FILL,8);
outtextxy(80,60,"! MIND MAZE !");
outtextxy(80,95,"= ======");
settextstyle(7,0,3);
setfillstyle(SOLID_FILL,CYAN);
bar(0,430,400,480);

outtextxy(30,440,"titan game
developers inc.");
setfillstyle(SOLID_FILL,MAGENTA);
bar(400,350,640,480);
outtextxy(410,360,"YOUR SCOREIS:: ");
setfillstyle(SOLID_FILL,DARKGRAY);
settextstyle(7,0,8);
outtextxy(410,380,scor);
for(m=0;m<i;m++)
bar(80*m+10,193,80*(m+1),270);
settextstyle(7,0,6);

for(i1=0;i1<2*i;i1+=2)
{
    moveto(40*i1+25,190);
    d[i1/2]=getch();
    c[0]=d[i1/2];
    c[1]=0;
    outtext(c);
    delay(125);
    x+=0;
}
d[i1/2]=0;

if(strcmpi(a,d)!=0)
{
    cleardevice();
}

```

```

        int wrong[ ]={  

            90+40,100-30,  

            180+40,100-30,  

            270+40,220-30,  

            360+40,100-30,  

            450+40,100-30,  

            340+40,250-30,  

            450+40,400-30,  

            360+40,400-30,  

            360+40,400-30,  

            270+40,280-30,  

            180+40,400-30,  

            90+40,400-30,  

            200+40,250-30,  

            90+40,100-30  

        };  

        setbkcolor(DARKGRAY);  

        setfillstyle(1,RED);  

        drawpoly(14,wrong);  

        fillpoly(14,wrong);  

        settextstyle(7,0,7);  

        setcolor(RED);  

        outtextxy(120,370,"INCORRECT!!!...");  

        delay(1500);  

        break;  

    }  

else  

{  

    cleardevice();  

    int tick[ ]={  

        150,150,  

        220,270,  

        500,140,

```

```

        520,210,
        200,320,
        100,170,
        150,150
    };
    setfillstyle(1,GREEN);
    drawpoly(7,tick);
    fillpoly(7,tick);
    settextstyle(7,0,7);
    setcolor(GREEN);

    outtextxy(160,370,"CORRECT!!!....");
    delay(1500);
    continue;
}
}
}
}
cleardevice();
setbkcolor(RED);
setcolor(YELLOW);
settextstyle(7,0,6);
outtextxy(0,50,"YOUR FINAL SCORE IS....");
settextstyle(7,0,14);
outtextxy(160,200,scor);
getch();
}

//*****MATHEMATICAL OPERATIONS*****

void gif()
{
    cleardevice();
    float x;

```

```

        cout<<"Enter the number for which
        greatest integer has to be found";
        cin>>x;
        cout<<"Greatest integer of the given
        number is "<<floor(x);
    }

//*****



float fact(int x)
{
    if(x>=0)
    {
        float m=1;
        cleardevice();
        for(int i=1;i<=x;i++)
            m*=i;
        return m;
    }
    else return 0;
}

//*****



void npr()
{
    float x,y;
    cleardevice();
    int n,r;
    cout<<"\n\nP(n,r)";
    cout<<"\n\nEnter n: ";
    cin>>n;
    cout<<"\n\nEnter r : ";
    cin>>r;
}

```

```

        if(r>n)
            cout<<"\n\ninvalid operation";
        else
        {
            x=fact(n);
            y=fact(n-r);
            cout<<"\n\n\n\t\tNo of permutations
: "<<x/y;
        }
    }

//*****



void ncr()
{
    float x,y,z;
    cleardevice();
    int n,r;
    cout<<"\n\nP(n,r)";
    cout<<"\n\nEnter n: ";
    cin>>n;
    cout<<"\n\nEnter r : ";
    cin>>r;
    if(r>n)
        cout<<"\n\ninvalid operation";
    else
    {
        x=fact(n);
        y=fact(n-r);
        z=fact(r);
        cout<<"\n\n\n\t\tNo of Combinations
: "<<(x/y)/z;
    }
}

```

```

//*****  

void hcf()  

{  

    cleardevice();  

    int x,y,z,m;  

    cout<<"Enter the 1st number : ";  

    cin>>x;  

    cout<<"Enter the 2nd number : ";  

    cin>>y;  

    if(x>y)      z=x;  

    else z=y;  

    for(int i=1;i<=z;i++)  

    if(x%i==0&&y%i==0)  

    m=i;  

    cout<<"\n\tHCF of given two numbers is "<<m;  

}  

//*****  

void converter()  

{  

    char xh;  

    cleardevice();  

    double x;  

    do  

    {  

        cleardevice();  

        cout<<"\n1.degree to radian  

2.radian to degree";  

        cout<<"\n3.metre to mile   4.mile to metre";  

        cout<<"\n5.metre to foot   6.foot to metre";
}

```

```

cout<<"\n7.metre to inch   8.inch to metre";
cout<<"\n9.celcius to kelvin
10.kelvin to celcius";
cout<<"\n11.celcius to fahrenheit
12.fahrenheit to celcius";
cout<<"\n13.sqft to acre   14.acre to sqft";
cout<<"\n15.USD to INR      16.INR to USD ";
cout<<"\n17.kmph to mph    18.kmph to mps";
cout<<"\n19.joule to calorie
20.joule/s to HP";
int ch;
cout<<"\n\n\t\t\tenter your choice : ";
cin>>ch;
cleardevice();
cout<"\n\n\n";
switch(ch)
{
case 1:cout<<"Degree : : ";
        cin>>x;
        cout<<"Radian : : "<<x*3.14/180;
        break;
case 2:cout<<"Radian : : ";
        cin>>x;
        cout<<"Degree : : "<<x*180/3.14;
        break;
case 3:cout<<"Metre : : ";
        cin>>x;
        cout<<"Mile : : "<<x*0.0006213689;
        break;
case 4:cout<<"Mile : : ";
        cin>>x;
        cout<<"Metre : : "<<x*1609.35;
        break;
case 5:cout<<"Metre : : ";

```

```

        cin>>x;
        cout<<"Foot : : "<<x*3.28083;
        break;
case 6:cout<<"Foot : : ";
        cin>>x;
        cout<<"Metre : : "<<x*0.3048;
        break;
case 7:cout<<"Metre : : ";
        cin>>x;
        cout<<"Inch : : "<<x*39.37007874;
        break;
case 8:cout<<"Inch : : ";
        cin>>x;
        cout<<"Metre : : "<<x*0.0254;
        break;
case 9:cout<<"Celcius : : ";
        cin>>x;
        cout<<"Kelvin : : "<<x+273.15;
        break;
case 10:cout<<"Kelvin : : ";
        cin>>x;
        cout<<"Celcius : : "<<x-273.15;
        break;
case 11:cout<<"Celcius : : ";
        cin>>x;
        cout<<"Fahrenheit : : "<<x*1.8+32;
        break;
case 12:cout<<"Fahrenheit : : ";
        cin>>x;
        cout<<"Celcius : : "<<(x-32)/1.8;
        break;
case 13:cout<<"SQFT : : ";
        cin>>x;
        cout<<"Acre : : "<<x*0.00002295;

```

```

        break;
case 14:cout<<"Acre : : ";
        cin>>x;
        cout<<"SQFT : : "<<x*43560;
        break;
case 15:cout<<"USD : : ";
        cin>>x;
        cout<<"INR : : "<<x*65.1;
        break;
case 16:cout<<"INR : : ";
        cin>>x;
        cout<<"USD : : "<<x*0.01536;
        break;
case 17:cout<<"kmph: : ";
        cin>>x;
        cout<<"mph : : "<<0.6213711;
        break;
case 18:cout<<"kmph : : ";
        cin>>x;
        cout<<"mps : : "<<x*5/18;
        break;
case 19:cout<<"Joule : : ";
        cin>>x;
        cout<<"Calorie : : "<<x/4.184;
        break;
case 20:cout<<"Joule/s : : ";
        cin>>x;
        cout<<"hp : : "<<x*0.0013;
        break;
}
cout<<"\n\n\t\tdo you want to continue with
conversions : : ";
cin>>xh;
}while(xh=='y' || xh=='Y');

```

```

    }

//*****CIRCULAR LOADING*****



void lcm()
{
    cleardevice();
    int x,y,i,z1,z2;
    cout<<"Enter the 1st number : ";
    cin>>x;
    cout<<"Enter the 2nd number : ";
    cin>>y;
    if(x>y)
    {
        z1=x;
        z2=y;
    }
    else
    {
        z1=y;
        z2=x;
    }
    for(i=z1;i<=(x*y);i+=z1)
    {
        if(i%z2==0)
        {
            cout<<"\n\tLCM of the two numbers
is "<<i;
            break;
        }
    }
}

//*****CIRCULAR LOADING*****

```

```

void loading()
{
    int i,j,k=90;
    setbkcolor(DARKGRAY);
    while(!kbhit())
    {
        settextstyle(4,HORIZ_DIR,3);
        outtextxy(255,240,"Loading ...");
        setcolor(YELLOW);
        for(i=k;i<=360+k;i+=20)
        {
            for(j=0;j<50;j++)
                arc(300,250,k,i,90+j);
        }break;
    }
}

//*****CHANGE PASSWORD*****
void changepassword()
{
    fstream f("UPWD.dat",ios::binary|ios::in
    |ios::out|ios::nocreate);
    char y1[20];
    char y2[30];
    outtextxy(20,20,"Current User name :");
    gotoxy(44,3);
    gets(y2);
    outtextxy(20,60,"current password : ");
    gotoxy(44,7);
    gets(y1);
    user u;
    int k=0;
    while(f.read((char *)&u,sizeof(u)))
}

```

```

        if(!strcmp(y1,u.pwd)&&strcmp(y2,u.uname)
        ))
        {
            k=f.tellg()-sizeof(u);
            break;
        }
        if(k!=0)
        {
            outtextxy(40,80,"verified");
            delay(400);
            cleardevice();
            outtextxy(20,20,"New Password :");
            gotoxy(44,3);
            gets(u.pwd);
            f.seekp(k);
            f.write((char *)&u,sizeof(u));
            getch();
        }
        else
        {
            outtextxy(20,40,"Incorrect
            credentials");
            delay(400);
            getch();
        }
        f.close();
    }

//*****CALCULATOR*****

```

```

void calculator()
{
    char v;
    do

```

```
{  
    cleardevice();  
    bar(145,5,452,472);  
    setfillstyle(SOLID_FILL,6);  
    setcolor(BLUE);  
    settextstyle(4,HORIZ_DIR,4);  
    outtextxy(155 , -5,"titan digital  
calculator");  
    setfillstyle(SOLID_FILL,5);  
    bar(150,30,447,467);  
    setfillstyle(SOLID_FILL,3);  
    setcolor(BLACK);  
    settextstyle(1,HORIZ_DIR,2);  
    outtextxy(35,160," ");  
    bar(155,35,443,120);  
    settextstyle(1,HORIZ_DIR,5);  
    bar(155,130,224,190);  
    outtextxy(180,130,"C");  
    bar(227,130,296,190);  
    outtextxy(242,130,"\\b");  
    bar(299,130,368,190);  
    outtextxy(320,130,"/");  
    bar(371,130,443,190);  
    outtextxy(400,136,"*");  
    bar(155,193,224,258);  
    outtextxy(180,200,"7");  
    bar(227,193,296,258);  
    outtextxy(255,200,"8");  
    bar(299,193,368,258);  
    outtextxy(320,200,"9");  
    bar(371,193,443,258);  
    outtextxy(395,195,"-");  
    bar(155,261,224,326);  
    outtextxy(180,270,"4");
```

```
bar(227,261,296,326);
outtextxy(255,270,"5");
bar(299,261,368,326);
outtextxy(320,270,"6");
bar(371,261,443,326);
outtextxy(395,270,"+");
bar(371,329,443,462);
outtextxy(395,365,"=");
bar(155,329,224,394);
outtextxy(180,340,"1");
bar(227,329,296,394);
outtextxy(255,340,"2");
bar(299,329,368,394);
outtextxy(320,340,"3");
bar(155,397,224,462);
outtextxy(180,405,"%");
bar(227,397,296,462);
outtextxy(255,405,"0");
bar(299,397,368,462);
outtextxy(330,390,".");
char x1[25],x2[25],x3;
int z1=0,z3=0;
float f1,f2,f3;
gotoxy(21,4);
gets(x1);
for(int z2=0;z2<=strlen(x1);z2++)
if(x1[z2]!='*'&&x1[z2]!='/&&x1[z2]!=
'+&&x1[z2]!='-
'&&x1[z2]!='\0'&&x1[z2]!='^')
    x2[z3++]=x1[z2];
else
{
    x2[z3]='\0';
    z3=0;
```

```

        z1++;
        if(z1==1)
        {
            x3=x1[z2];
            f1=atof(x2);
        }
        else
            f2=atof(x2);
    }
    switch(x3)
    {
        case '*':f3=f1*f2;break;
        case '/':f3=f1/f2;break;
        case '+':f3=f1+f2;break;
        case '-':f3=f1-f2;break;
        case '^':f3=pow(f1,f2);
    }
    setbkcolor(BLACK);
    gotoxy(21,6);
    cout<<'='<<f3;
    v=getch();
}while(v=='c' | | v=='C');
}

//*****SMALL BASKET*****
stock::stock(char *stname,int q, char *file)
{
    stock f;
    strcpy(f.name,stname);
    f.stok=q;
    int g=stock_exists(f.name,file);
    if(!g)
    {

```

```

        ofstream
        fin(file,ios::binary|ios::app);
        fin.write((char*)&f,sizeof(f));
        fin.close();
    }
}

//*****



sum give_me_the_product(char*file,int a)
{
    sum Jar;
    ifstream
    fin(file,ios::in|ios::binary|ios::nocreate);
    fin.seekg((a-1)*sizeof(Jar),ios::beg);
    fin.read((char*)&Jar,sizeof(Jar));
    fin.close();
    return Jar;
}

//*****



char*itoa(long int n)
{   char s[20]; ltoa(n,s,10); return s; }

//*****



int stock_exists(char *stname,char *file)
{
    stock s;
    int t=0;
    ifstream fin(file,ios::binary|ios::in);
    while(fin.read((char*)&s,sizeof(s)))
    {

```

```

                if(strcmp(s.name,stname)==0)
                { t++; break; }
            }
        fin.close();
        return t;
    }

//*****



int NoP(char*file)
{
    ifstream ff(file,ios::binary);
    ff.seekg(0,ios::end);
    long t1=ff.tellg();
    t1/=sizeof(sum);
    int t=t1;
    ff.close();
    return t;
}

//*****



int blank_record(sum a)
{
    if(strlen(a.q)==0)
        return 1;
    else
        return 0;
}

//*****



void create_stock_list(char c)
{

```

```

switch(c)
{
case 'f':
case 'F':{ char b[8][25]={"Burger","Idli",
                           "Pizza","Dosa","Schezwan Fried
                           rice", "Chapathi", "Noodles",
                           "Addai"};
            for(int ka=0;ka<8;ka++)
            {stock _1(b[ka],100,"fstock.dat");}
            break;

case 'g':
case 'G': {
            char c[8][40]={"Tata salt","Amul
                           cheese","Arun ice(2 pc)","Amul
                           ghee 250ml","Society masala tea
                           500g","Bru coffee","Patanjali
                           Noodles","Basmati rice"};
            for(int ka=0;ka<8;ka++)
            {stock _1(c[ka],100,"gstock.dat");}
            }break;

case 'v':
case 'V':{ char
c[8][20]={"Tomato","Potato","Cabbage"
           , "Carrot","Cucumber","Bitter
           gourd","Onion","Chilly"};
            for(int ka=0;ka<8;ka++)
            {stock _1(c[ka],100,"vstock.dat");}
            } break;

case 'b':
case 'B': {
            char c[8][25]={"Pizza","Arun

```

```

ice(4 Nos),"Onion","Tomato(5
kg)","Society tea 1.5 kg ","Iron
box","Toaster","Pendrive -
64gb"};
for(int ka=0;ka<8;ka++)
{stock _1(c[ka],100,"bstock.dat");}
} break;

case 'e':
case 'E':{ char c[8][25]={"Hard disk
1tb","Power bank 4500mA",
"Pendrive 64gb","Toaster","Microwave
oven","Speakers ","Wrist
Watch","Induction cook top"};
for(int ka=0;ka<8;ka++)
{stock _1(c[ka],100,"estock.dat");}
}break;
} //switch case
}

//*****



void purchase(char b[8][25],long int price[8],char
*category,char *file,char*human)
{
    int l;
    long q=0;
    setbkcolor(0);
    setcolor(YELLOW);
    settextstyle(4,HORIZ_DIR,5);
    outtextxy(45,10,category);
    bar3d(10,140,620,200,0,1);
    bar3d(10,220,620,280,0,1);
    bar3d(10,300,620,360,0,1);
}

```

```

bar3d(10,380,620,440,0,1);
settextstyle(1,HORIZ_DIR,3);
int y=145;
for(l=0;l<8;l+=2)
{
    outtextxy(45,y,b[1]);
    char cht[10];
    ltoa(price[l],cht,10);
    outtextxy(45,y+25,cht);
    ltoa(price[l+1],cht,10);
    outtextxy(380,y,b[1+1]);
    outtextxy(380,y+25,cht);
    y+=80;
}
getch();
char savu;
int quantity[8],i;
stock tl[8];
do
{
    cleardevice();
    setbkcolor(0);
    setcolor(2);
    settextstyle(4,HORIZ_DIR,3);
    outtextxy(15,10,"Sb");
    setcolor(YELLOW);
    settextstyle(4,HORIZ_DIR,5);
    outtextxy(45,17,"Your Order Please:-");
    settextstyle(1,HORIZ_DIR,3);
    outtextxy(45,75,"Name");
    outtextxy(300,75,"Qty    ");
    getch();
    outtextxy(45,97,b[0]);
    gotoxy(40,8);
}

```

```
    cin>>quantity[0];
    outtextxy(45,115,b[1]);
    gotoxy(40,9);
    cin>>quantity[1];
    outtextxy(45,133,b[2]);
    gotoxy(40,10);
    cin>>quantity[2];
    outtextxy(45,151,b[3]);
    gotoxy(40,11);
    cin>>quantity[3];
    outtextxy(45,169,b[4]);
    gotoxy(40,12);
    cin>>quantity[4];
    outtextxy(45,187,b[5]);
    gotoxy(40,13);
    cin>>quantity[5];
    outtextxy(45,205,b[6]);
    gotoxy(40,14);
    cin>>quantity[6];
    outtextxy(45,223,b[7]);
    gotoxy(40,15);
    cin>>quantity[7];
    cleardevice();
    int n=0;

    ifstream fb(file,ios::binary);
    fb.seekg(0);
    for(i=0;i<8;i++)
    {
        fb.read((char*)&tl[i],sizeof(tl[i]));
    }
    fb.close();

    for(l=0;l<8;l++)
```

```

{
    while((tl[1].stok-quantity[1])<0)
    {
        cout<<tl[1].name<<" is available
        in less quantity than what u
        require";
        cout<<endl<<"Maximum quantity
        available is : "<<tl[1].stok;
        cout<<"\nEnter the quantity : ";
        cin>>quantity[1];
    }
}

cleardevice();
setbkcolor(BLACK);

setcolor(2);
settextstyle(4,HORIZ_DIR,3);
outtextxy(15,10,"Sb");
setcolor(YELLOW);
settextstyle(4,HORIZ_DIR,5);

outtextxy(45,17,"Your Order Summary:-");
settextstyle(1,HORIZ_DIR,3);
outtextxy(45,75,"Name");
outtextxy(300,75,"Qty   ");
outtextxy(400,75,"Amount");
int x=82,y=7;

for(n=0;n<8;n++)
if(quantity[n])
{
    x+=15;
    y++;
}

```

```

        outtextxy(45,x,b[n]);
        gotoxy(40,y); cout<<quantity[n];
        gotoxy(55,y);cout<<price[n]*quantity[n];
    }

    long int q=0;//calculating bill amount
    for(n=0;n<8;n++)
        q+=price[n]*quantity[n];

    outtextxy(200,260,"GRAND TOTAL=>");
    gotoxy(55,18);cout<<q;
    outtextxy(45,350,"Tap 'Y' to alter your
                           order ");
    outtextxy(45,380,"Tap any other key for
                           processing the order ");
    savu=getch();
} while(savu=='Y'||savu=='y');

cleardevice();
for(l=0;l<8;l++)
{
    tl[l].stok-=quantity[l];
}

ofstream ft(file,ios::trunc|ios::binary);
ft.close();
ft.open(file,ios::app|ios::binary);
for(l=0;l<8;l++)
{
    ft.write((char*)&tl[l],sizeof(tl[l]));
}
ft.close();

sum t[8]; //to store the things which user

```

```

        has brought
        for(int aa1=0;aa1<8;aa1++)
        {
            strcpy(t[aa1].q,b[aa1]);
            t[aa1].qty=quantity[aa1];
            t[aa1].amt=quantity[aa1]*price[aa1];
        }
        //creating log of orders placed
        strcpy(str,human);
        strcat(str,".dat");

        ofstream f1(str,ios::binary|ios::app);
        for(aa1=0;aa1<8;aa1++)
        {
            if(t[aa1].qty)
                f1.write((char*)&t[aa1],sizeof(t[aa1]));
        }

        sum abc={"",0,0};
        f1.write((char*)&abc,sizeof(abc));
        f1.close();

        final_message(human);
        delivery_message(human);
    }

//*****



int new_sb_user()
{
    int bf=0;
    fstream
    f1("access.dat",ios::binary|ios::in|ios::out|
    ios::app);
}

```

```

f1.seekg(0,ios::end);
long top=f1.tellg( );
top/=sizeof(log1);

if(top<15)
{
    cout<<"Enter login id : ";
    gets(log1.id);
    cout<<"Set ur security code : ";
    gets(log1.pass);
    top++;
    f1.seekg(0,ios::end);
    f1.write((char*)&log1,sizeof(log1));
    bf=1;
}
else
cout<<"Our app has reached more than 15
million account holders so out of space will
upade and lt u know";
f1.close();
return bf;
}

```

//*****

```

void final_message(char*ah)
{
    cleardevice();
    setbkcolor(YELLOW);
    setfillstyle(SOLID_FILL,12);
    bar3d(10,10,620,70,0,1);
    setcolor(BLACK);
    settextstyle(1,HORIZ_DIR,5);
    outtextxy(20,15,"Sb");
}

```

```

        settextstyle(1,HORIZ_DIR,4);
        setcolor(BLACK);
        outtextxy(220,10,"SMALL BASKET");
        outtextxy(120,40,"one stop shop for all your
daily needs");
        settextstyle(1,HORIZ_DIR,3);
        bar3d(10,80,620,480,0,1);
        setfillstyle(SOLID_FILL,13);
        outtextxy(20,100,"Order Successfully
Completed");
        outtextxy(20,150,"Name: ");
        outtextxy(20,225,ah);
        outtextxy(20,190,"Address: Plot No.R40B 120
Feet road ");
        outtextxy(20,220,"Mogappair,
Chennai-50 ");
        getch();
        cleardevice();
    }
//*****
void summary(char*god)
{
    cleardevice();
    setbkcolor(BLACK);

    int x=82,y=7,check;
    cleardevice();

    setbkcolor(0);
    setcolor(2);
    settextstyle(4,HORIZ_DIR,3);
    outtextxy(15,10,"Sb");
    setcolor(YELLOW);
    settextstyle(4,HORIZ_DIR,5);
}

```

```

outtextxy(45,17,"Your OrderHistory :-");
outtextxy(50,40," Order ");

settextstyle(1,HORIZ_DIR,3);
outtextxy(45,75,"Name");
outtextxy(300,75,"Qty   ");
outtextxy(400,75,"Amount");

strcpy(str,god);
strcat(str,".dat");

int nop=NoP(str);
cout<<nop<<" ";
sum bd;

for(int bv=1;bv<nop;bv++)
{
    reinitialise_file_pointer(str);
    bd=give_me_the_product(str,bv);
    check=blank_record(bd);
    if(check)
    {
        getch();
        cleardevice();
        setbkcolor(0);
        setcolor(2);
        settextstyle(4,HORIZ_DIR,3);
        outtextxy(15,10,"Sb");
        setcolor(YELLOW);
        settextstyle(4,HORIZ_DIR,5);
        outtextxy(45,17,"Your Order
History :-");
        outtextxy(50,40," Order ");
        settextstyle(1,HORIZ_DIR,3);
    }
}

```

```

        outtextxy(45,75,"Name");
        outtextxy(300,75,"Qty    ");
        outtextxy(400,75,"Amount");
        x=82;y=7;
    }
    else
    {
        x+=17;
        y++;
        outtextxy(45,x,bd.q);
        gotoxy(40,y); cout<<bd.qty;
        gotoxy(55,y);cout<<bd.amt;
    }
}
getch();

}

//*****



void delivery_message(char*demigod)
{
    cleardevice();
    setbkcolor(YELLOW);
    setfillstyle(SOLID_FILL,12);
    bar3d(10,10,620,70,0,1);
    settextstyle(1,HORIZ_DIR,5);
    setcolor(BLACK);
    outtextxy(20,15,"Sb");
    settextstyle(1,HORIZ_DIR,4);
    setcolor(BLACK);
    outtextxy(220,10,"SMALL BASKET");
    settextstyle(1,HORIZ_DIR,3);
}

```

```
outtextxy(120,40,"one stop shop for all your  
daily needs");  
bar3d(10,80,620,480,0,1);  
setfillstyle(SOLID_FILL,13);  
outtextxy(150,100,demigod);  
outtextxy(20,150," Your order will reach  
the given address");  
outtextxy(20,190," in few nanoseconds  
");  
settextstyle(1,HORIZ_DIR,2);  
bar3d(10,435,620,475,0,1);  
outtextxy(120,431,"1 CRORE INDIANS ARE SMALL  
BASKETEERS!!!");  
outtextxy(220,450,"SMALL BASKET BIG JOY");  
getch();  
}
```

```
////////////////////////////////////////////////////////////////////////
```

```
void user_stuff(char*person)  
{  
char de;  
do  
{  
cleardevice();  
setbkcolor(YELLOW);  
setfillstyle(SOLID_FILL,12);  
bar3d(10,10,620,70,0,1);  
settextstyle(1,HORIZ_DIR,5);  
setcolor(BLACK);  
outtextxy(20,15,"Sb");  
settextstyle(1,HORIZ_DIR,4);  
setcolor(1);
```

```
outtextxy(220,10,"SMALL BASKET");
settextstyle(1,HORIZ_DIR,3);
outtextxy(120,40,"one stop shop for all
your daily needs");
setfillstyle(SOLID_FILL,13);
bar3d(10,80,160,130,0,1);
bar3d(170,80,320,130,0,1);
bar3d(330,80,480,130,0,1);
bar3d(490,80,620,130,0,1);
bar3d(10,140,620,230,0,1);
bar3d(10,240,620,330,0,1);
bar3d(10,340,620,430,0,1);
settextstyle(1,HORIZ_DIR,2);
bar3d(10,435,620,475,0,1);
outtextxy(120,431,"1 CRORE INDIANS ARE
SMALL BASKETEERS!!!");
outtextxy(220,450,"SMALL BASKET BIG
JOY");
setcolor(1);
settextstyle(1,HORIZ_DIR,3);
outtextxy(12,81,"Food(F)");
settextstyle(1,HORIZ_DIR,2);
outtextxy(20,100,"and Beverage");
settextstyle(1,HORIZ_DIR,3);
outtextxy(176,83,"Groceries(G)");
outtextxy(332,82,"Vegetables(V)");
outtextxy(492,82,"My Summary(S)");
setcolor(RED);
outtextxy(175,175," ELECTRONICS(E) ");
outtextxy(175,275,"BEST DEAL FOR
EVER!!! (B)");
setcolor(2);
outtextxy(45,345,"Choice: ");
gotoxy(20,23);
```

```

char chr;
chr=getch();
chr=toupper(chr);
cout<<chr;
getch();

create_stock_list(chr);

cleardevice();
switch(chr)
{
    case 'f':
    case 'F': long int
dd[8]={190,50,700,50,500,50,100,150};
charb[8][25]={"Burger","Idli","Pizza"
                , "Dosa", "Schezwan Fried
                rice", "Chapathi ",
                "Noodles", "Addai"};
                purchase(b,dd,"Food and
                Beverages","fstock.dat",
                person);
                break;

    case 'g':
    case 'G': long int e[8]={50,170,50,
                                140,200,140,90,150};
                char c[8][25]={"Tata
                salt", "Amul cheese"
                "Arun ice(2 pc)", "Amul ghee
                250ml", "Society masala tea
                500g", "Bru coffee",
                "Patanjali Noodles", "Basmati
                rice"};
                purchase(b,e,c,"fstock.dat",
                person);
                break;
}

```

```

rice"};
purchase(c,e,"Groceries","gs
tock.dat",person);
break;

case 'v':
case 'V':char d[8][25]={ "Tomato",
"Potato", "Cabbage", "Carrot",
"Cucumber", "Bitter gourd" ,
"Onion", "Chilly"};
long int it[8]={50,40,50,40
,20,40,60,50};
purchase(d,it,"Vegetables"
,"vstock.dat",person);
break;

case 'b':
case 'B': char cf[8][25]={ "Pizza",
"Arun ice(4 Nos)",
"Onion", "Tomato(5 kg)", "Society
tea 1.5 kg ", "Iron box",
"Toaster", "Pendrive - 64gb"};
long int ef[8]={50,170,1,
100, 150,150,70,15};
purchase(cf,ef,"BEST DEAL
FOR EVER"," bstock.dat"
, person);
break;

case 'e':
case 'E':char cd[8][25]={ "Hard disk1tb",
"Power bank 4500mA", "Pendrive
64gb", "Toaster", "Microwave oven
", "Speakers ", "Wrist Watch",
"Induction cook top"};
long int ed[8]={500,170,99,199,

```

```

        155,209,170,165};
        purchase(cd,ed,"ELECTRONICS",
                  "estock.dat",person);
        break;
    case 's':
    case 'S': summary(person);break;
}

cleardevice();
setcolor(1);
outtextxy(100,220,"      For further orders
tap 'Y'  ");
outtextxy(100,250,"Tap any other key for
quiting app");

de=getch();
}while(de=='y'||de=='Y');

}

//*****



void alter(char b[8][25],char *file)
{
    int up,l;
    cleardevice();
    setbkcolor(YELLOW);
    setfillstyle(SOLID_FILL,12);
    bar3d(10,10,620,70,0,1);
    settextstyle(1,HORIZ_DIR,5);
    setcolor(BLACK);
    outtextxy(20,15,"Sb");
    settextstyle(1,HORIZ_DIR,4);
    setcolor(BLACK);
}

```

```

outtextxy(220,10,"SMALL BASKET");
settextstyle(1,HORIZ_DIR,3);
outtextxy(120,40,"one stop shop for all your
daily needs");
setfillstyle(SOLID_FILL,13);
settextstyle(1,HORIZ_DIR,2);
bar3d(10,435,620,475,0,1);
outtextxy(120,431,"1 CRORE INDIANS ARE SMALL
BASKETEERS!!!");
outtextxy(220,450,"SMALL BASKET BIG JOY");
setbkcolor(BLACK);
settextstyle(1,HORIZ_DIR,3);
setcolor(RED);
outtextxy(17,120,"1.Alter Quantity");
outtextxy(17,150,"2.Check Stock Availability");
outtextxy(45,345,"Choice: ");
gotoxy(20,23);
cin>>up;
int i;

stock tz[8];
ifstream fb(file,ios::binary|ios::in);
fb.seekg(0);
for(i=0;i<8;i++)
{
    fb.read((char*)&tz[i],sizeof(tz[i]));
}
fb.close();

if(up==1)
{
    int a[8],i;
    cleardevice();
    i=8;
}

```

```
setbkcolor(0);
setcolor(2);
settextstyle(4,HORIZ_DIR,3);
outtextxy(15,10,"Sb");
setcolor(YELLOW);
settextstyle(4,HORIZ_DIR,5);
outtextxy(45,17,"Upadting Stocks ");
settextstyle(1,HORIZ_DIR,3);
outtextxy(45,75,"Name");
outtextxy(300,75,"Qty   ");
getch();
outtextxy(45,97,b[0]);
gotoxy(40,8);
cin>>a[0];
outtextxy(45,115,b[1]);
gotoxy(40,9);
cin>>a[1];
outtextxy(45,133,b[2]);
gotoxy(40,10);
cin>>a[2];
outtextxy(45,151,b[3]);
gotoxy(40,11);
cin>>a[3];
outtextxy(45,169,b[4]);
gotoxy(40,12);
cin>>a[4];
outtextxy(45,187,b[5]);
gotoxy(40,13);
cin>>a[5];
outtextxy(45,205,b[6]);
gotoxy(40,14);
cin>>a[6];
outtextxy(45,223,b[7]);
gotoxy(40,15);
```

```

    cin>>a[7];

    cleardevice();
    int n=0;
    for(l=0;l<8;l++)
    {
        while(a[l]<0)
        {
            cout<<b[l]<<"has been invalidly filled\n";
            cout<<endl<<"Minimum quantity updatable is :
            0 \n\n";
            cout<<"Enter the quantity : ";
            cin>>a[l];
        }
    }
    for(n=0;n<8;n++)
        tz[n].stok+=a[n];

    cleardevice();
    setbkcolor(BLACK);
    setcolor(2);
    settextstyle(4,HORIZ_DIR,3);
    outtextxy(15,10,"Sb");
    setcolor(YELLOW);
    settextstyle(4,HORIZ_DIR,5);
    outtextxy(45,17,"Current Availability of Stock");
    settextstyle(1,HORIZ_DIR,3);
    outtextxy(45,75,"Name");
    outtextxy(300,75,"Qty   ");
    int x=82,y=7;
    for(n=0;n<i;n++)
    {
        x+=15;
        y++;

```

```

        outtextxy(45,x,b[n]);
        gotoxy(40,y); cout<<tz[n].stok;
    }

ofstream fb1(file,ios::trunc|ios::binary);
fb1.close();

fb1.open(file,ios::binary|ios::app);
fb1.seekp(0);
for(l=0;l<8;l++)
{
    fb1.write((char*)&tz[l],sizeof(tz[l]));
}
fb1.close();
getch();
}
else if(up==2)
{
    int n;
    cleardevice();
    setbkcolor(BLACK);
    setcolor(2);
    settextstyle(4,HORIZ_DIR,3);
    outtextxy(15,10,"Sb");
    setcolor(YELLOW);
    settextstyle(4,HORIZ_DIR,5);
    outtextxy(45,17,"Current Availability of
Stock");
    settextstyle(1,HORIZ_DIR,3);
    outtextxy(45,75,"Name");
    outtextxy(300,75,"Qty      ");
    int x=82,y=7;
    for(n=0;n<i;n++)
    {

```

```

        x+=15;
        y++;
        outtextxy(45,x,b[n]);
        gotoxy(40,y); cout<<tz[n].stok;
    }
    getch();
}

//*****



void admin_stuff()
{
    char qwerty;
    do
    {
        cleardevice();
        setbkcolor(YELLOW);
        setfillstyle(SOLID_FILL,12);
        bar3d(10,10,620,70,0,1);
        settextstyle(1,HORIZ_DIR,5);
        setcolor(BLACK);
        outtextxy(20,15,"Sb");
        settextstyle(1,HORIZ_DIR,4);
        setcolor(BLACK);
        outtextxy(220,10,"SMALL BASKET");
        settextstyle(1,HORIZ_DIR,3);
        outtextxy(120,40,"one stop shop for all your
daily needs");
        setfillstyle(SOLID_FILL,13);
        bar3d(10,80,160,130,0,1);
        bar3d(170,80,320,130,0,1);
        bar3d(330,80,480,130,0,1);
    }
}

```

```
bar3d(490,80,620,130,0,1);
bar3d(10,140,620,230,0,1);
bar3d(10,240,620,330,0,1);
bar3d(10,340,620,430,0,1);
settextstyle(1,HORIZ_DIR,2);
bar3d(10,435,620,475,0,1);
outtextxy(120,431,"1 CRORE INDIANS ARE SMALL
BASKETEERS!!!!");
outtextxy(220,450,"SMALL BASKET BIG JOY");
setcolor(YELLOW);
settextstyle(1,HORIZ_DIR,3);
outtextxy(12,81,"Food(F)");
settextstyle(1,HORIZ_DIR,2);
outtextxy(20,100,"and Beverage");
settextstyle(1,HORIZ_DIR,3);
outtextxy(176,83,"Groceries(G)");
settextstyle(1,HORIZ_DIR,3);
outtextxy(332,82,"Vegetables(V)");
settextstyle(1,HORIZ_DIR,3);
outtextxy(492,82," ADMIN ");
setcolor(RED);
settextstyle(1,HORIZ_DIR,3);
outtextxy(175,175," ELETRONICS (E) ");
settextstyle(1,HORIZ_DIR,3);
outtextxy(175,275,"BEST DEAL FOR
EVER!!! (B) ");
setcolor(2);
settextstyle(1,HORIZ_DIR,3);
outtextxy(45,345,"Choice: ");
gotoxy(20,23);
char chr;
chr=getch();
chr=toupper(chr);
cout<<chr;
```

```

getch();
create_stock_list(chr);
switch(chr)
{
    case 'f':
    case 'F':{
        char b[8][25]={"Burger","Idli",
                      "Pizza","Dosa","Schezwan Fried
                      Rice", "Chapathi",
                      "Noodles","Addai"};
        alter(b,"fstock.dat");
    }break;

    case 'g':
    case 'G': {
        char c[8][25]={"Tata salt","Amul
                      cheese","Arun ice(2 pc)","Amul
                      ghee 250ml","Society masala tea
                      500g","Bru coffee","Patanjali
                      Noodles","Basmati rice"};
        alter(c,"gstock.dat");
    }break;

    case 'v':
    case 'V':{
        char c[8][25]={"Tomato","Potato",
                      "Cabbage","Carrot","Cucumber",
                      "Bitter gourd","Onion","Chilly"};
        alter(c,"vstock.dat");
    }break;

    case 'b':
    case 'B':{ char c[8][25]= {"Pizza","Arun
                                ice(4 Nos)","Onion","Tomato(5kg)"
                                , "Society tea 1.5 kg ","Iron bo
                                x","Toaster","Pendrive - 64gb"};
    }
}

```

```

        alter(c,"bstock.dat");
    }break;
case 'e':
case 'E': { char c[8][25]={"Hard disk
    1tb","Power bank 4500mA",
    "Pendrive 64gb","Toaster",
    "Microwave oven ","Speakers ",
    "Wrist Watch","Induction cook top"};
    alter(c,"estock.dat");
}break;
}
cleardevice();
setbkcolor(BLACK);
setcolor(YELLOW);
settextstyle(1,HORIZ_DIR,2);
outtextxy(20,120,"Do you want to alter
any other category ? ");
gotoxy(45,14);
qwerty=getch();
} while(qwerty=='y'||qwerty=='Y');
}

//*****



void reinitialise_file_pointer(char*file)
{
    ifstream f1(file,ios::binary|ios::in);
    f1.seekg(0,ios::beg);
    f1.close();
}

//*****



void create_questions()
{

```

```
ifstream f1("quiz.dat",ios::binary);
if (f1) f1.close();
else
{
ofstream f2("quiz.dat",ios::binary|ios::app);
{ qu d={"Coldest planet",
        "Neptune",
        "Saturn",
        "Uranus",
        "jupiter"
    };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"Present RBI Governor",
      "urjit patel",
      "raguram rajan",
      "manmohan singh",
      "narendra modi" };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"country which lost most people during
WW2",
      "japan",
      "russia",
      "usa",
      "china" };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"largest animal",
      "blue whale",
      "elephant",
      "tiger"
    };
f2.write((char*)&d,sizeof(d));
}
```

```
"rhino",
"hippo" };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"smallest bird",
"hummingbird",
"sparrow",
"eagle",
"crow" };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"bali is located here",
"indonesia",
"cuba",
"brazil",
"australia" };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"european unions working capital",
"brussels",
"frankfurt",
"paris",
"stockholm" };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"world's richest man",
"bill gates",
"paul stick",
"ambani",
"ratan tata"};
```

```
f2.write((char*)&d,sizeof(d));
}
{
qu d={"people's president",
"abdul kalam",
"pranab",
"pratiba",
"ramnarayan"};
f2.write((char*)&d,sizeof(d));
}
{
qu d={"most powerful man in the world",
"vladimir putin",
"donald trump",
"obama",
"modi"};
f2.write((char*)&d,sizeof(d));
}
{
qu d={"lok pal activist",
"anna hazare",
"kejriwal",
"kailash satyarthi",
"irom sharmila"};
f2.write((char*)&d,sizeof(d));
}
{
qu d={"war memorial in delhi",
"india gate",
"qutub minar",
"tajmahal",
"redfort"};
f2.write((char*)&d,sizeof(d));
}
```

```
{  
qu d={"she is lara croft:tomb rider",  
"angelina jolie",  
"rosamund pike",  
"hathaway",  
"selina"    };  
f2.write((char*)&d,sizeof(d));  
}  
{  
qu d={"highest grossing south indian film",  
"baahubali",  
"endhiran",  
"sivaji",  
"viswaroopam"    };  
f2.write((char*)&d,sizeof(d));  
}  
{  
qu d={"production company of 2.0",  
"lyca",  
"studio green",  
"cloud9",  
"escape artists"};  
f2.write((char*)&d,sizeof(d));  
}  
{  
qu d={"entomology is science that studies",  
"insects",  
"plants",  
"birds",  
"parasites" };  
f2.write((char*)&d,sizeof(d));  
}  
{  
qu d={"dictator of iraq",
```

```
"saddam hussain",
"osama",
"mohammad",
"mansoor"    };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"national animal of china",
"giant panda",
"lion",
"tiger",
"cheetah"    };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"which turkish city has a name of
cartoon character",
"batman",
"superman",
"mickey mouse",
"hulk"    };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"mediterranean sea and red sea are
joined by _____ canal",
"suez canal",
"grand canal",
"panama canal",
"erie canal"};
f2.write((char*)&d,sizeof(d));
}
{
```

```
qu d={"a dancer who won the most grammy
awards",
"michael jackson",
"adele",
"sinatra",
"skrillex" };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"famous band known as the quarrymen",
"beatles",
"u2",
"santana",
"toto" };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"world's largest office building",
"pentagon",
"white house",
"burj khalifa",
"taipei 101"};
f2.write((char*)&d,sizeof(d));
}
{
qu d={"in which city was titanic built",
"belfast",
"liverpool",
"madrid",
"leeds" };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"fish with a snake like body",
```

```
"eel",
"horsefish",
"stingray",
"arowana"    };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"no of oscars titanic got",
"eleven",
"ten",
"nine",
"twelve"    };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"name of computers from which internet
has emerged",
"arpnet",
"difference engine",
"ibm",
"eniac"    };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"inventor of steam engine",
"james watt",
"diesel",
"karl benz",
"sadi carnot"    };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"first olympic was held here",
"greece",
```

```

    "spain",
    "italy",
    "france" );
f2.write((char*)&d,sizeof(d));
}
{
qu d={"the power to decide an election
petition is vested in the",
"parliament",
"supreme court",
"high court",
"election commission" };
f2.write((char*)&d,sizeof(d));
}
{
qu d={"the ratio of width of our national
flag to its length is",
"3:5",
"2:3",
"2:4",
"3:4"};
f2.write((char*)&d,sizeof(d));
}

f2.close();
}
}

//*****



void create_news()
{
ifstream f1("news.dat",ios::binary);
if(!f1)

```

```
{  
    f1.close();  
    ofstream  
    f2("news.dat",ios::binary|ios::app);  
    newsc a;  
  
    strcpy(a.h,"Gravitational wave scientists");  
    strcpy(a.h2," win 2017 Nobel Physics  
Prize");  
    strcpy(a.t,"");  
    strcpy(a.b[0],"The three are Rainer Weiss of  
the Massachusetts");  
    strcpy(a.b[1]," Institute of Technology and  
Barry Barish");  
    strcpy(a.b[2]," and Kip Thorne of the  
California Institute of Technology.");  
    f2.write((char*)&a,sizeof(a));  
  
    strcpy(a.h,"Police Probe Las Vegas Shooter's  
Motive");  
    strcpy(a.h2,"At least 59 killed");  
    strcpy(a.t,"Deadliest shooting in modern U.S.  
history");  
    strcpy(a.b[0],"Police struggled to determine  
the motive of the shooter");  
    strcpy(a.b[1],"-Stephen Paddock-who killed  
himself in the hotel room");  
    strcpy(a.b[2]," from which he fired onto a  
concert. More than 520 were injured.");  
    f2.write((char*)&a,sizeof(a));  
  
    strcpy(a.h,"Chennai braces for more rains");  
    strcpy(a.h2,"Schools remain shut");  
    strcpy(a.t,"Coastal packets of Chennai
```

```

    affected");
    strcpy(a.b[0],"Parts of Chennai received 30
cm of rain.");
    strcpy(a.b[1],"Schools will be closed on 4th
November.");
    strcpy(a.b[2],"Air operations affected.");
    f2.write((char*)&a,sizeof(a));
    f2.close();
}
f1.close();
}

char*capitalise(char a[])
{
    for(int i=0;i<strlen(a);i++)
        if(!i||a[i-1]==' '||a[i-1]=='.')
            a[i]=toupper(a[i]);
    return a;
}

//*****
//*****
```

void essentials()

```

{
    create_admins();
    create_news();
    create_questions();
}
```

//***END OF TITAN.H*******

Our main file: TITAN.CPP

```
#include "titan.h"

user u;

void main()
{
    Essentials();

    int gd=DETECT, gm;
    initgraph(&gd,&gm,"c:\\turboc3\\bgi");
    cleardevice();

    int x,y;
    char c='E',cha;
    cleardevice();

    ifstream fin("access.dat",ios::binary);
    user l;

    settextstyle(3,HORIZ_DIR,5);

    cleardevice();

    char opening[]="TITAN";
    for( x=0;x<strlen(opening);x++)
    {
        char b[2];
        b[0]=opening[x];
        b[1]='\0';
    }
}
```

```
    outtextxy(280,40+(40*x),b);

    delay(100);

}

cleardevice();

for(int i3=3;i3<10;i3++)

{ cleardevice();

    setbkcolor(i3);

    for( x=0;x<strlen(opening);x++)

    {

        char b[2];

        b[0]=opening[x];

        b[1]='\0';

        outtextxy(280,40+(40*x),b);

        delay(100);

    }

    delay(100);

}

char me;

cleardevice();

char name[20],pass[20];

settextstyle(4,HORIZ_DIR,3);
```

```
outtextxy(22,10,"New user :");

gotoxy(50,2);

cin>>me;

me=tolower(me);

int bf=0;

if(me=='y')

{

    int ld=1;

    fin.seekg(0);

    user book;

    int v5=0;

    do

    {

        ld=1;

        cout<<"\n\nEnter login id : ";

        gotoxy(50,7+3*v5);

        gets(l.uname);

        while(fin.read((char*)&book,sizeof(book)))

        {

            if(!strcmp(l.uname,book.uname))

            {

                ld=0;break;

            }

        }

    }

}

cout<<"\n\nEnter password : ";

cout<<endl;

cout<<endl;
```

```
    }

}

if(lid==0)

    cout<<"Sorry already the user name is

under existence \n \tTry for another one";

    v5++;

    fin.seekg(0);

}while(!lid);

cout<<"\n\nSet your security code : ";

gotoxy(60,7+3*v5);

gets(l.pwd);

fin.close();

ofstream

fout("access.dat",ios::binary|ios::app);

fout.write((char*)&l,sizeof(l));

fout.close();

bf=1;

}

do

{

    char name[20],pass[20];

    settextstyle(3,HORIZ_DIR,3);
```

```
setcolor(YELLOW);

cleardevice();

setbkcolor(BLACK);

settextstyle(4,HORIZ_DIR,9);

outtextxy(0,150,"TITAN");

line(420,20,420,450);

line(424,20,424,450);

settextstyle(1,0,2);

outtextxy(440,115,"Username :");

outtextxy(440,190,"Password :");

bar(440,150,720,180);

bar(440,235,720,265);

setfillstyle(SOLID_FILL,1);

bar(440,320,720,350);

outtextxy(500,317,"LOGIN");

gotoxy(58,11);

gets(name);

int w=0;

ifstream fin("access.dat",ios::binary);

if(!fin)

exit(1);

while ( fin.read((char *)&u,sizeof(u)))

{
```

```
    if (strcmp(name,u.uname)==0)
    {
        w++;
        break;
    }
}
if(w==0)
{
    outtextxy(440,270,"Invalid id ");
    getch();
    cleardevice();
    exit(1);
}
else
{
    gotoxy(58,16);
    int o=0;
    do
    {
        pass[o]=getch();
        if(pass[o]=='\b')
        {
            cout<<pass[o];

```

```
    o-=2;

    bar(440,235,720,265);

    gotoxy(58,16);

    for(int i=0;i<=o;i++)

        cout<<"*";

    }

    else if(pass[o]!='\n')

    {

        cout<<pass[o];

        delay(200);

        cout<<"\b*";

    }

    o++;

}while(/*pass[o-1]!='\n'*/o<=strlen

(u.pwd));

pass[o-1]='\0';

//cout<<pass;

if (strcmp(pass,u.pwd))

{

    outtextxy(440,275,"Incorrect password ");

    fflush(stdin);

    getch();

    cleardevice();
```

```
    exit(1);

}

fin.close();

cleardevice();

settextstyle(4,HORIZ_DIR,8);

setcolor(YELLOW);

outtextxy(110,120," TITAN ");

setfillstyle(EMPTY_FILL,0);

bar3d(100,350,540,400,0,1);

settextstyle(1,HORIZ_DIR,5);

outtextxy(260,348,"START");

settextstyle(1,HORIZ_DIR,2);

outtextxy(160,210,"INDIA\S SECOND ALL IN
ONE APP");

outtextxy(230,410,"PRESS S TO START");

char ch=getch();

if(ch=='s' || ch=='S')

{

    cleardevice();

    loading();

    do

    {

        cleardevice();
```

```
setbkcolor(WHITE);

setcolor(BLUE);

settextstyle(4,HORIZ_DIR,8);

moveto(180,10); string("TITAN");

settextstyle(1,0,4);

moveto(120,100);string("1.

Calculator");

moveto(120,140);string("2.

Quiz");

moveto(120,180);string("3. News

corner");

moveto(120,220);string("4. Mind

Maze");

moveto(120,260);string("5.

Mathematical Operations");

moveto(120,300);string("6.

Kollywood Game");

moveto(120,340);string("0. More

Options");
```

```
int option;

outtextxy(120,380,"Enter your

choice : ");
```

```
    gotoxy(56,24);

    cin>>option;

    if(option==0)

    {

        cleardevice();

        moveto(120,20);

        string("7. Paint");

        moveto(120,60);

        string("8. Game");

        moveto(120,100);

        string("9. Calendar");

        moveto(120,140);

        string("10. Clock");

        moveto(120,180);

        string("11.Tricky test");

        moveto(120,220);

        string("12.Small basket");

        moveto(120,260);

        string("13. Change Password");

        if(strcmpi(u.uname,"admin")==0)

        {

            outtextxy(120,300,"14.

Modify Quiz Questions");

```

```
outtextxy(120,340,"15.change
```

```
news");
```

```
}
```

```
outtextxy(120,400,"Enter
```

```
your choice : ");
```

```
gotoxy(56,24);
```

```
cin>>option;
```

```
}
```

```
switch(option)
```

```
{
```

```
case 1:      load();
```

```
calculator();
```

```
getch();
```

```
break;
```

```
case 2:      cleardevice();
```

```
quiz();
```

```
break;
```

```
case 3:      cleardevice();
```

```
news();
```

```
break;
```

```
case 4:      mind();
```

```
break;
```

```
case 5: char _a;
```

```
do
```

```

    {
        cleardevice();
        setbkcolor(BLACK);
        int dave;
        cout<<"\n\t1.LCM
\t2.HCF
\t3.GREATEST INTEGER
FUNCTION";

        cout<<"\n\n\t4.Factorial\t5.Permutations\t6.Combinations";
        cout<<"\n\n\t7.converter";
        cout<<"\n\nEnter your choice:";
        cin>>dave;
        switch(dave)
        {

            case 1: lcm();      break;
            case 2: hcf();      break;
            case 3: gif();      break;
            case 4: cleardevice();

            cout<<"\n\nENTER A NUMBER:";
            int x;   cin>>x;
            cout<<"\n\n\t\tFactorial :

```

```

    " << fact(x);
    break;

    case 5: npr();      break;
    case 6: ncr();      break;
    case 7: setbkcolor(BLACK);
              converter();      break;

    default: cout<<"Invalid";
}

cout<<"\nDo you want to continue
with mathematical operations ";

cin>>_a;
}while(_a=='Y'||_a=='y');

break;

case 6: cleardevice();  kolly();
          break;

case 7: load();  cleardevice();
          setbkcolor(BLACK);
          paint();
          break;

case 8: load();  cleardevice();
          display2();
          setbkcolor(GREEN);
          setfillstyle(1,RED);

```

```

        bar(255,175,355,225);

        outtextxy(275,200,"NEW GAME");

        bar(255,250,355,300);
outtextxy(275,275," HELP");

bar(255,325,355,375);

outtextxy(275,350," CREDITS");
int xx=1; setcolor(WHITE);
rectangle(255,100+xx*lo,355,150+xx*lo);

int bb=bioskey(0);while(bb==ESC || bb==UP ||
| bb==DOWN || bb==ENTER)

{
    setcolor(GREEN);
    rectangle(255,100+xx*lo,355
              ,100+xx*lo+50);

switch(bb)

{
    case ESC:goto q1; break;

    case UP :      if(xx==1)
                    xx=3;
                else if(xx>1)

```

```
        xx--;      break;

        case DOWN: if(xx==3)
                     xx=1;
                 else if(xx<3)xx++;
                     break;
        case ENTER:if(xx==1)
                     gameplay3();
                 if(xx==2)
                     help3();
                 if(xx==3)
                     credits();
                     getch(); }

        setcolor(WHITE);
        rectangle(255,100+xx*lo,355,100+xx*lo
                  +50);
        bb=bioskey(0);
    }

break;
case 9:  cleardevice();  calendar();
break;
case 10: cleardevice();  clock1();
break;
case 11: cleardevice();  tricky();
```

```
        break;

    case 12: if(strcmpi(u.uname,"admin"));
               user_stuff(u.uname);
               else admin_stuff(); break;

    case 13: cleardevice();
               setbkcolor(BLACK);
               setcolor(YELLOW);
               changepassword();
               break;

    case 14: cleardevice(); change();
               break;

    case 15: modifynews(); getch();
               break;

    default : outtextxy(120,380,"Invalid
                           choice");

}

q1:

getch();

cleardevice();

setbkcolor(BLACK);

setcolor(YELLOW);

settextstyle(1,HORIZ_DIR,2);

outtextxy(20,120,"Do you want to
glance at any other application? ");
```

```
    gotoxy(45,14);

    cha=getch();

}while(cha=='y' || cha=='Y');

cleardevice();

settextstyle(4,HORIZ_DIR,7);

setcolor(RED);

outtextxy(5,50," PRESENTED BY : :");

settextstyle(3,HORIZ_DIR,4);

setcolor(BLUE);

outtextxy(200,225,"* B.Vignesh XII

'B'    ");

outtextxy(200,200,"* N.Khaveesh XII

'A'    ");

outtextxy(200,175,"* AL.Muthu    XII

'A'    ");

getch();

cleardevice();

setbkcolor(BLACK);

settextstyle(4,HORIZ_DIR,14);

setcolor(YELLOW);

outtextxy(55,120,"THANK YOU");

setfillstyle(EMPTY_FILL,0);

bar3d(100,350,540,400,0,1);
```

```
        settextstyle(1,HORIZ_DIR,5);
        outtextxy(260,348,"EXIT");
        settextstyle(1,HORIZ_DIR,2);
        outtextxy(230,410,"PRESS E TO EXIT");
        c=getch();
        if (c=='E' || c=='e')
            exit(0);
    }
}

}while(c!='E');
closegraph();
}
```

Outputs

T
I
T
A
N

New user :

y

Enter login id :

raj123

dav123

Set ur security code :

OJCAN

INDIA'S SECOND ALL IN ONE APP

START

PRESS S TO START

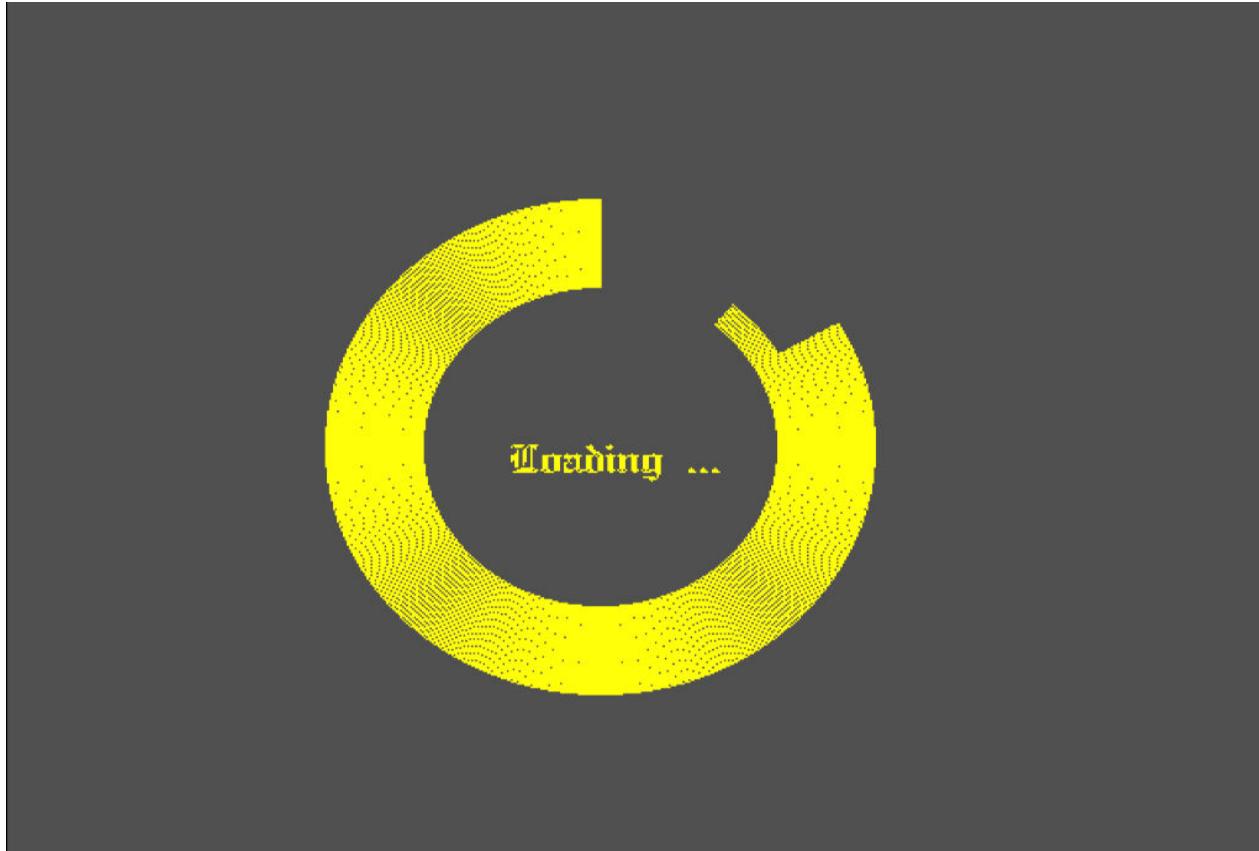
OJCAN

Username :

admin

Password :

LOGIN



CECAN

1. Calculator
 2. Quiz
 3. News corner
 4. Mind Maze
 5. Mathematical Operations
 6. Kollywood Game
 0. More Options
- Enter your choice :

- 7. Paint
- 8. Game
- 9. Calendar
- 10. Clock
- 11. Tricky test
- 12. Small basket
- 13. Change Password
- 14. Modify Quiz Questions
- 15. change news

Enter your choice :



LOADING, PLEASE WAIT



titani digital calculator

25+6250

=6275

C	\b	/	*
7	8	9	-
4	5	6	+
1	2	3	=
%	0	.	



Press S to start

Enter Player name :
raj

Question : world's largest office building

- Options :
- A . white house
 - B . pentagon
 - C . burj khalifa
 - D . taipei 101

Your Answer :

Question : world's largest office building

- Options :
- A . white house
 - B . pentagon
 - C . burj khalifa
 - D . taipei 101

Your Answer : b

Congratulations you got it RIGHT!!

Correct : 5/10 Incorrect : 2/10

High Scores

YOUR SCORES :

Player	raj	:	1000
--------	-----	---	------

PREVIOUS SCORES :

Player	vijay	:	500
--------	-------	---	-----

Player	vikram	:	400
--------	--------	---	-----

Player	arjun	:	300
--------	-------	---	-----

NEWS CORNER

HEADLINES

Gravitational wave scientists
win 2017 Nobel Physics Prize

The three are Rainer Weiss of the Massachusetts
Institute of Technology and Barry Barish
and Kip Thorne of the California Institute of Technology.

NEWS CORNER

HEADLINES

Police Probe Las Vegas Shooter's Motiv
At least 59 killed
Deadliest shooting in modern U.S. hist

Police struggled to determine the motive of the shooter
-Stephen Paddock-who killed himself in the hotel room
from which he fired onto a concert. More than 520 were injured.

MIND MAZE

START

PRESS S TO START

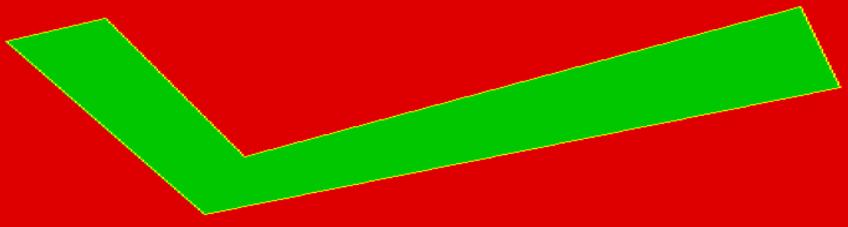
! MIND MAZE !
= - - - - = - - - - =

4 7 9 7 4 0 5

YOUR SCORE IS ::

2100

titan game developers inc.



CORRECT!!!!

MIND MAZE

LEVEL 2

START

PRESS S TO START

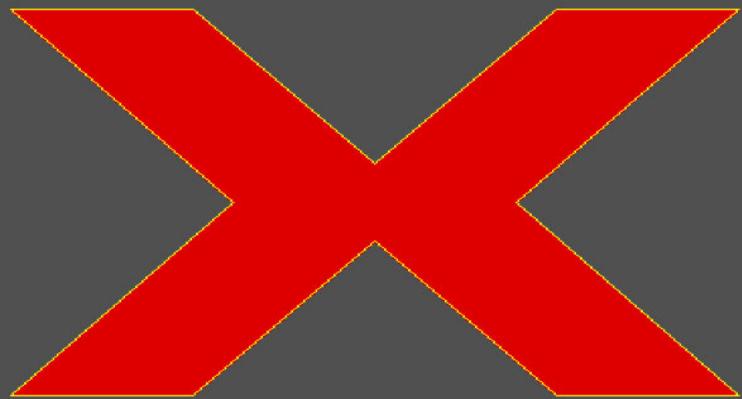
! MIND MAZE !

y i m j k

YOUR SCORE IS : :

4300

titan game developers inc.



INCORRECT!!!!

YOUR FINAL SCORE IS..

4300

1.LCM

2.HCF

3.GREATEST INTEGER FUNCTION

4.Factorial

5.Permutations

6.Combinations

7.converter

Enter your choice:

Enter the 1st number : 12

Enter the 2nd number : 11

HCF of given two numbers is 1

Do you want to continue with mathematical operations

- 1.degree to radian
- 3.metre to mile
- 5.metre to foot
- 7.metre to inch
- 9.celcius to kelvin
- 11.celcius to fahrenheit
- 13.sqft to acre
- 15.USD to INR
- 17.kmph to mph
- 19.joule to calorie

- 2.radian to degree
- 4.mile to metre
- 6.foot to metre
- 8.inch to metre
- 10.kelvin to celcius
- 12.fahrenheit to celcius
- 14.acre to sqft
- 16.INR to USD
- 18.kmph to mps
- 20.joule/s to HP

enter your choice :

Degree :: 180

Radian :: 3.14

do you want to continue with conversions :: n

KOLLY WOOD

START

PRESS S TO START

! KOLLY WOOD !

—_A_A_A_

KOL

DIRECTOR : VETRIMAAARAN

titan game developers inc.

! KOLLY WOOD !

—_A_A_A_

KOLLY

DIRECTOR : VETRIMAAARAN

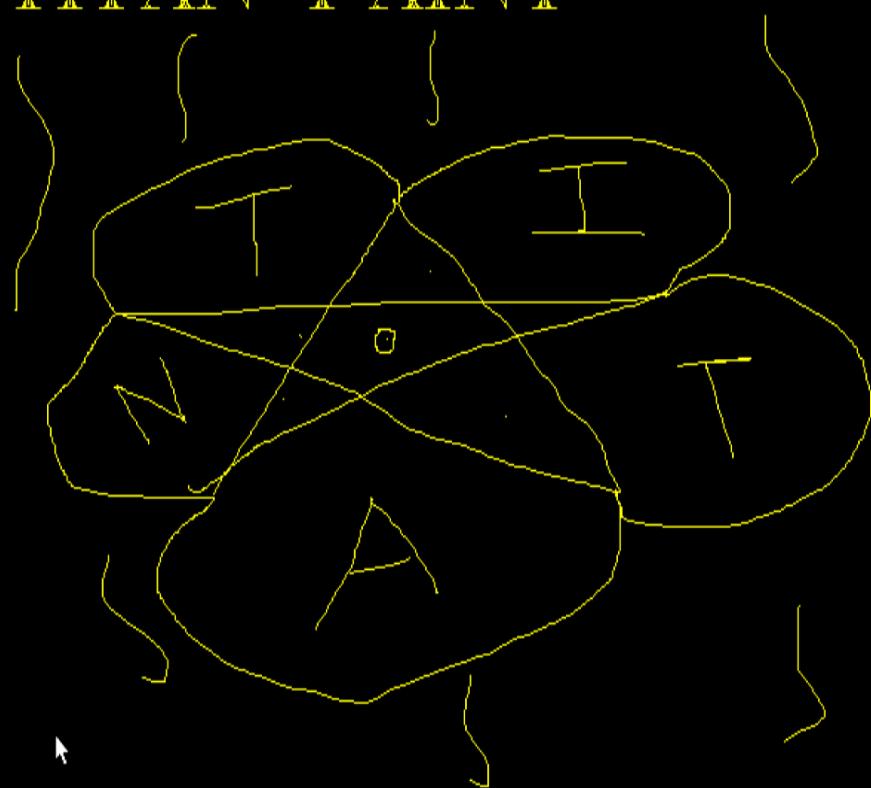
ACTOR : DINESH

titan game developers inc.

TITAN PAINT



TITAN PAINT



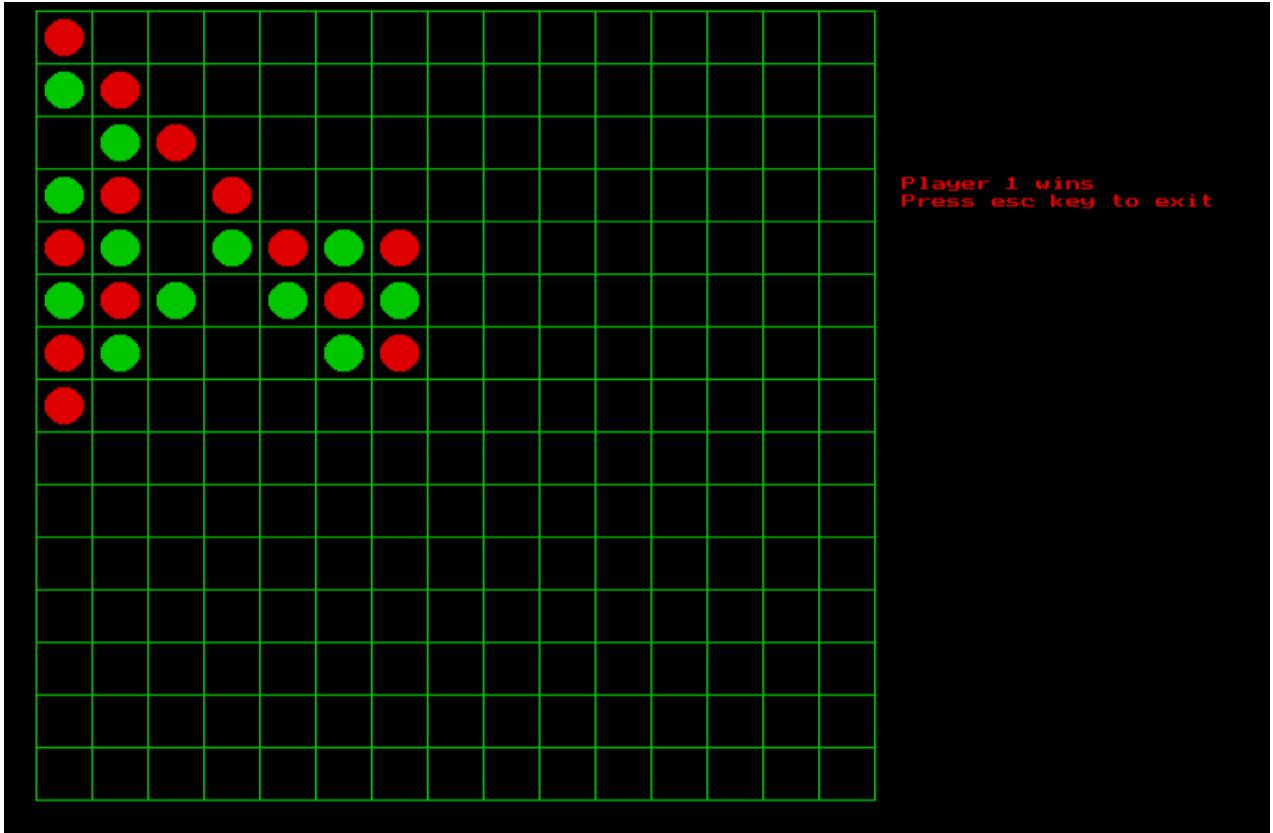
CONNECT 5

NEW GAME

HELP

CREDITS





HELP TO PLAY GAME

- 1). A Strategy game for 2 players.
- 2). The Objective of connect-5 is to make 5 orbs in a row
- 3). Players take turns to place their orbs in cell.
- 4). Once a player makes 5(five) in a row which can be formed horizontal or vertical or diagonal; the player wins ,so the game ends

TITAN GAME PROJECT

DONE BY
TITANNIANS

BLESSED TO BE STUDENT OF...
DAV SENIOR SECONDARY
SCHOOL MOGAPPAIR

GUI CALENDAR

2000	April					
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Using Keys :

↑ : Increase Year, ↓ : Decrease Year
→ : Increase Month, ← : Decrease Month
Esc : Exit

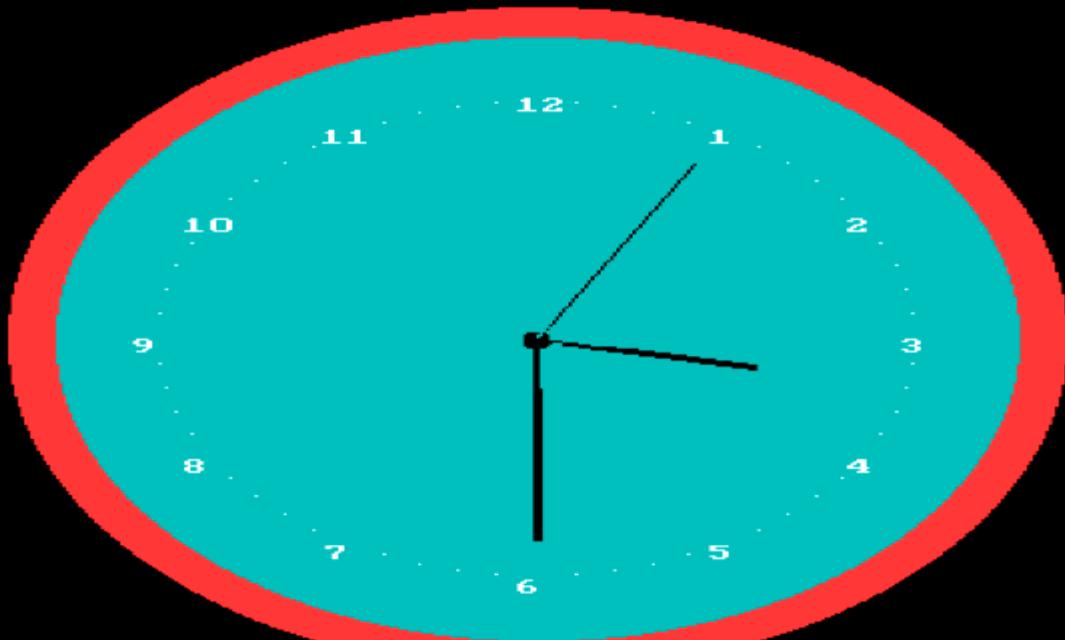
GUI CALENDAR

2017	November					
S	M	T	W	T	F	S
						1
2	3	4				
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Using Keys :

↑ : Increase Year, ↓ : Decrease Year
→ : Increase Month, ← : Decrease Month
Esc : Exit

Analog Clock



03 : 30 : 05

TRICKY TEST

START

PRESS S TO START

LEVEL 4

Question:A man was born in 1948 and he recently celebrated his 17th bday which month would have he

- A: Dec B: Aug
- C: Jan D: Feb

Enter Your Answer:

CORRECT

REASON:HE MIGHT HAVE BORN ON 29/FEB/1948

Score: 30

YOUR SCORE IS : 130

YOU ARE GENIUS!!!

User name : raj123

current password :

verified dav123

New Password : dav456

Enter Question :

the ratio of width of our national flag to its length is

Enter Options :

3:5

2:3

2:4

3:4

Modify News

ADD NEWS (A)

DELETE NEWS (D)

a

Enter Headline:

chennai braces for more rains

Enter Additional Headline:

schools remain shut

Enter tag line:

coastal packets of chennai affected

Enter content:

parts of chennai received 30 cm of rain.

schools will be closed on 4th november.

air operations affected.

NEWS CORNER

HEADLINES

chennai braces for more rains

schools remain shut

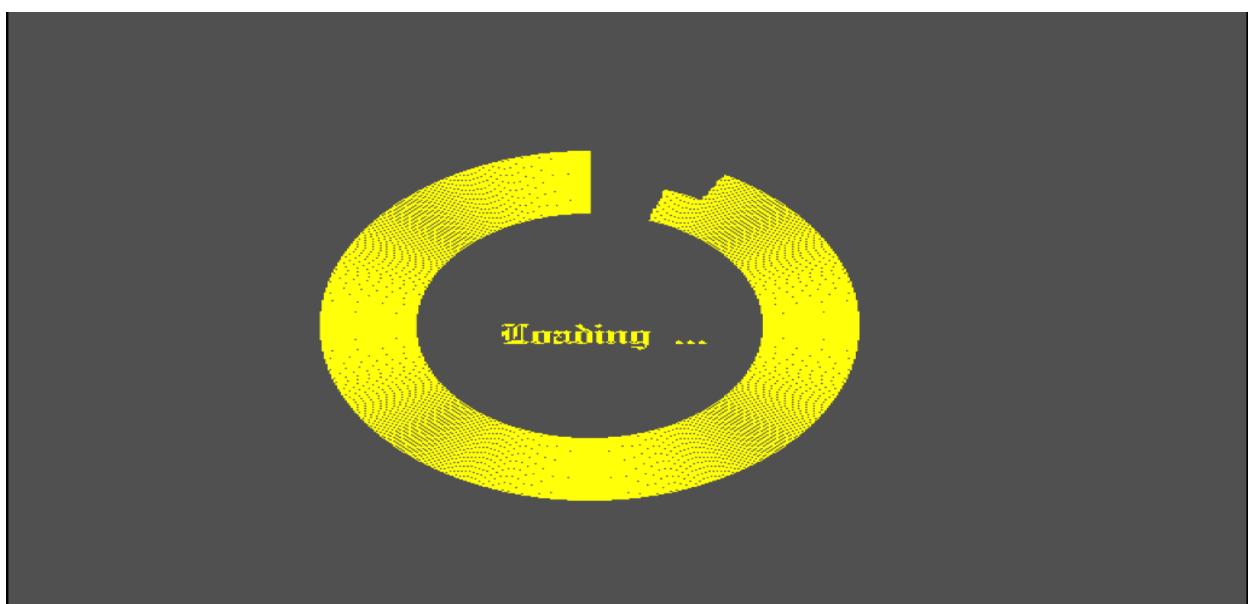
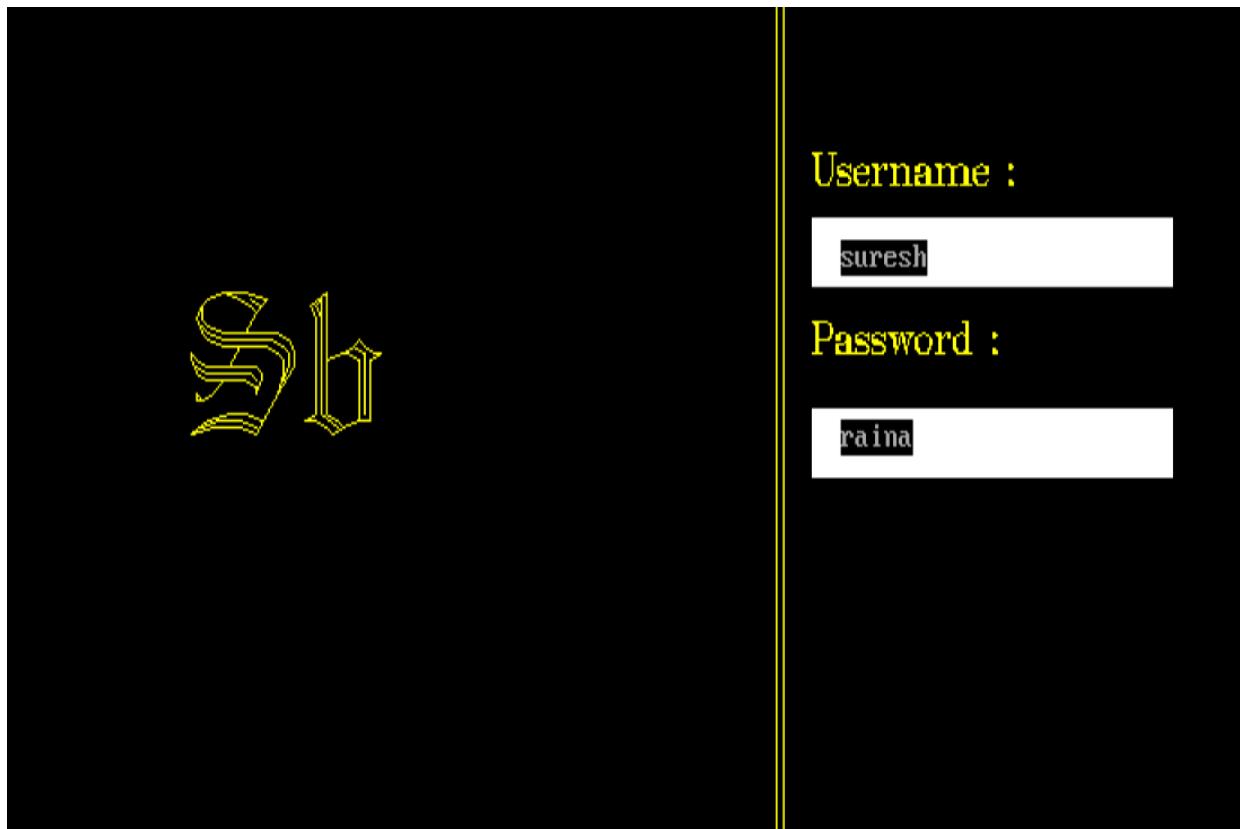
coastal packets of chennai affected

parts of chennai received 30 cm of rain.

schools will be closed on 4th november.

air operations affected.

```
New user ?(Y/N) y  
Enter login id : suresh  
Set ur security code : raina
```



Sb

SMALL BASKET
one stop shop for all your daily needs

Food(F)
and Beverage

Groceries(G)

Vegetables(V)

My Summa

ELECTRONICS(E)

BEST DEAL FOR EVER!!!(B)

Choice:

1 CRORE INDIANS ARE SMALL BASKETEERS!!!
SMALL BASKET BIG JOY

Food and Beverages

Burger(B)

Price Rs 140

Itly-2 Nos (I)

Price Rs 40

Pizza(P)

Price Rs 200

Dosa (D)

Price Rs 40

Schezwan Fried rice(S)

Price Rs 200

Chapathi (C)

Price Rs 40

Noodles(N)

Price Rs 90

Addai (A)

Price Rs 50

Sh

Your Order Please:-

Name	Qty
Burger	1
Idli	2
Pizza	3
Dosa	4
Schezwan Fried rice	5
Chapathi	6
Noodles	1
Addai	7

Sh

Your Order Summary:-

Name	Qty	Amount
Burger	1	140
Idli	2	80
Pizza	3	600
Dosa	4	160
Schezwan Fried rice	5	1000
Chapathi	6	240
Noodles	1	90
Addai	7	350

GRAND TOTAL=> 2660

Tap 'Y' to alter your order

Tap any other key for processing the order

Sb

SMALL BASKET
one stop shop for all your daily needs

Order Successfully Completed

Name: Mr. suresh

Address: Plot No.R40B 120 Feet road
Mogappair, Chennai-50

Sb

SMALL BASKET
one stop shop for all your daily needs

Mr. suresh

Your order will reach the given address

in few nanoseconds

For further orders tap 'Y'

Tap any other key for quitting app

1 CRORE INDIANS ARE SMALL BASKETEERS!!!
SMALL BASKET BIG JOY

Groceries

Tata salt

Price Rs 50

Amul cheese

Price Rs 170

Arun ice(2 pc)

Price Rs 50

Amul ghee 250ml

Price Rs 140

Society masala tea 500g

Price Rs 200

Bru coffee

Price Rs 140

Patanjali Noodles

Price Rs 90

Basmati rice

Price Rs 150

Sh Your Order Summary:-

Name	Qty	Amount
Tata salt	1	50
Amul cheese	2	340
Arun ice(2 pc)	3	150
Amul ghee 250ml	1	140
Society masala tea 500g	2	400
Bru coffee	1	140
Patanjali Noodles	3	420
Basmati rice	1	90
	2	300
GRAND TOTAL=>		1890

Tap Y to alter your order list

Tap any key for processing the order

Vegetables

Tomato
Price Rs 50

Potato
Price Rs 40

Cabbage
Price Rs 50

Carrot
Price Rs 40

Cucumber
Price Rs 20

Bitter gourd
Price Rs 40

Onion
Price Rs 60

Chilly
Price Rs 50

Sh Your Order Please:-

Name	Qty(kg)
Tomato	1
Potato	1
Cabbage	1
Carrot	1
Cucumber	1
Bitter gourd	1
Onion	1
Chilly	1

Sh Your Order Summary:-

Name	Qty(kg)	Amount
Tomato	1	50
Potato	1	40
Cabbage	1	50
Carrot	1	40
Cucumber	1	20
Bitter gourd	1	40
Onion	1	60
Chilly	1	50

GRAND TOTAL=> 350

Tap Y to alter your order list

Tap any key for processing the order

EELECTRONICS

Hard disk 1tb
Price Rs 5000

Power bank 4500mA
Price Rs 1700

Pendrive 64gb
Price Rs 999

Toaster
Price Rs 1999

Microwave oven
Price Rs 1550

Speakers
Price Rs 2099

Wrist Watch
Price Rs 1700

Induction cook top
Price Rs 1650

Sub Your Order Please:-

Name	Qty
Hard disk 1tb	1
Power bank 4500mA	1
Pendrive 64gb	1
Toaster	1
Microwave oven	0
Speakers	0
Wrist Watch	0
Induction cook top	1

Sub Your Order Summary:-

Name	Qty	Amount
Hard disk 1tb	1	5000
Power bank 4500mA	1	1700
Pendrive 64gb	1	999
Toaster	1	1999
Induction cook top	1	1650

GRAND TOTAL=> 11348

Tap Y to alter your order list

Tap any key for processing the order

BESU BEAUTY FOR EVER

Pizza Price Rs 50	Arun ice(4 Nos) Price Rs 170
----------------------	---------------------------------

Onion Price Rs 20	Tomato(5 kg) Price Rs 100
----------------------	------------------------------

Society tea 1.5 kg Price Rs 550	Iron box Price Rs 2099
------------------------------------	---------------------------

Toaster Price Rs 1700	Pendrive – 64gb Price Rs 650
--------------------------	---------------------------------

Sb Your Order History :-

Name	Qty	Amount
Burger	1	140
Idli	2	80
Pizza	3	600
Dosa	4	160
Schezwan Fried rice	5	1000
Chapathi	6	240
Noodles	1	90
Addai	7	350
Tata salt	1	50
Amul cheese	2	340
Arun ice(2 pc)	3	150
Amul ghee 250ml	1	140
Society masala tea 500g	2	400
Bru coffee	3	420

Sh

Your Order History :-

Name	Qty	Amount
Patanjali Noodles	1	90
Basmati rice	2	300
Tomato	1	50
Potato	1	40
Cabbage	1	50
Carrot	1	40
Cucumber	1	20
Bitter gourd	1	40
Onion	1	60
Chilly	1	50
Hard disk 1tb	1	5000
Power bank 4500mA	1	1700
Pendrive 64gb	1	999
Toaster	1	1999

Sh

Your Order History :-

Name	Qty	Amount
Induction cook top	1	1650



Username :

admin

Password :

davian

Sb

SMALL BASKET

one stop shop for all your daily needs

Food(F)
and Beverage

Grosseries(G)

Vegetables(V)

ADMIN

ELETRONICS (E)

BEST DEAL FOR EVER!!!(B)

Choice:

1 CRORE INDIANS ARE SMALL BASKETEERS!!
SMALL BASKET BIG JOY

Do you want to continue with the same account???

Sb

SMALL BASKET
one stop shop for all your daily needs

- 1.Alter Quantity
- 2.Check Stock Availability

Choice: 2

1 CRORE INDIANS ARE SMALL BASKETEERS!!!
SMALL BASKET BIG JOY

Sb

Current Availability of Stock

Name	Qty
Burger	205
Idli	205
Pizza	205
Dosa	205
Schezwan Fried rice	205
Chapathi	205
Noodles	205
Addai	205

Sb

SMALL BASKET
one stop shop for all your daily needs

- 1.Alter Quantity
- 2.Check Stock Availability

Choice: 1

1 CRORE INDIANS ARE SMALL BASKETEERS!!!
SMALL BASKET BIG JOY

Sb Upadting Stocks

Name	Qty
Burger	1
Idli	1
Pizza	1
Dosa	1
Schezwan Fried rice	1
Chapathi	1
Noodles	1
Addai	1

Sb

SMALL BASKET
one stop shop for all your daily needs

- 1.Alter Quantity
- 2.Check Stock Availability

Choice: 2

1 CRORE INDIANS ARE SMALL BASKETEERS!!!
SMALL BASKET BIG JOY

Sb Current Availability of Stock

Name	Qty
Burger	206
Idli	206
Pizza	206
Dosa	206
Schezwan Fried rice	206
Chapathi	206
Noodles	206
Addai	206

PRESENCED BY ::

* B.Vignesh XII 'B'
* N.Khaveesh XII 'A'
* AL.Muthu XII 'A'

THANK YOU

EXIT

PRESS E TO EXIT

System requirements:

- ❖ Intel Pentium(2.50 GHz) or higher.
- ❖ Windows XP or higher.
- ❖ Turbo c++ with dosbox.
- ❖ 512 MB RAM.
- ❖ 16x CD ROM.

Bibliography:

- ❖ Computer science with c++ by sumita arora (vol 1 and 2) class xi and xii.
- ❖ Let us c++ by yashavant kanetkar.
- ❖ C++ graphics-P.B.MALHOTRA.

The End