```
/********************
                    LIST OF HEADER FILES
*************************
#include<iostream.h>
#include<fstream.h>
#include<graphics.h>
#include<conio.h>
#include<stdlib.h>
#include<stdio.h>
#include<dos.h>
#include<time.h>
#include<string.h>
#include<iomanip.h>
#include<math.h>
#includeocess.h>
/***********************
                      GLOBAL VARIABLE
int cor_x=-1,cor_y=-1;
/***********************************
                     FUNCTION PROTOTYPE
void mouse();
void exit_button();
int DetectMouse(void);
void InitMouse(void);
void ShowMouse(void);
void HideMouse(void);
void WhereMouse(int*,int*);
int ButtClicked(void);
int ButtReleased(void);
int book_display(int);
void ubuntu(int,int);
char mouse_click_for_dialoge_box(int a,int b);
int mouse_click_for_signin(int a,int b);
int mouse_click_for_setting(int a,int b);
int mouse_click_for_readbook(int a,int b);
int mouse_click_for_add_book(int a,int b);
int mouse_click_for_signup(int a,int b);
int mouse_click_for_regular_home(int a,int b);
int mouse_click_for_premium_home(int a,int b);
int mouse_click_for_admin_home(int a,int b);
int mouse_click_for_diplay(int a,int b);
void loading(void);
void wrong_password(void);
void signin_sucess(void);
void issue_sucess(void);
void return_sucess(void);
void buy_sucess(void);
void sell_sucess(void);
void setting_button(int,int);
char return_confirm(void);
char sell_confirm(void);
char deletebook_confirm(void);
char deleteuser_confirm(void);
char exit_confirm(void);
void logo(int,int,int,int);
void side_bar();
                   START OF MOUSE FUNCTION
void mouse()
   int ch.a.b;
   DetectMouse();
   InitMouse();
   ShowMouse();
   void WhereMouse(int*,int*);
   ButtClicked();
   ButtReleased();
   while (ch! = 27)
```

```
if(kbhit())
            ch=getch();
        WhereMouse(&a,&b);
        if(ButtReleased())
            cor_x=a,cor_y=b;
            HideMouse();
            delay(40);
            goto out;
out:
int DetectMouse(void)
    union REGS in, out;
    in.x.ax=0;
    int86(0X33,&in,&out);
    if(out.x.ax==0)
        return(0);
    else
        return(1);
void InitMouse(void)
    union REGS in,out;
    in.x.ax=33;
    int86(0X33,&in,&out);
    return;
void HideMouse(void)
    union REGS in,out;
    in.x.ax=2;
    int86(0X33,&in,&out);
    return;
void ShowMouse(void)
    union REGS in, out;
    in.x.ax=1;
    int86(0X33,&in,&out);
    return;
void WhereMouse(int *x,int *y)
    union REGS in,out;
    in.x.ax=3;
    int86(0X33,&in,&out);
    *x=(int)out.x.cx;
    *y=(int)out.x.dx;
    return;
int ButtClicked(void)
    union REGS imouse,omouse;
    int mc,mr;
    imouse.x.ax = 3;
    int86(0X33, &imouse, &omouse);
    mc=omouse.x.bx;
    return(mc);
int ButtReleased(void)
    int br;
    br=ButtClicked();
    do {}
    while(ButtClicked()!=0);
    return br;
```

```
***********************
    ***************
                       CLASS DEFINATION
*****************
class book
public:
   int book_id;
   char book_name[40];
   char author[20];
   float price;
   char content[200];
   int issue_stock;
   int buy_stock;
   void del book(void);
   void read_book(int);
   book()
   {
       book_id=0;
       issue_stock=buy_stock=5;
       price=0.0;
       strcpy(book_name,"");
       strcpy(author, "");
       strcpy(content,"");
};
void book::read_book(int id)
   book bk9;
   char exit_ans;
   if(id==0)
       goto end_read_book;
   else
       ifstream filbookread;
       filbookread.open("book",ios::in|ios::binary);
       if(!filbookread)
           cout << "cannot open file!!";</pre>
           delay(2000);
           return ;
       filbookread.seekg(0);
       filbookread.read((char *) &bk9,sizeof(bk9));
       while(filbookread!=0)
           if(id==bk9.book_id)
book_read:
               cleardevice();
               int i,exitid=-1;
               setfillstyle(SOLID_FILL,2);
               bar(15,25,106,157);
               setfillstyle(SOLID_FILL,9);
               bar(10,20,100,150);
               setcolor(15);
               rectangle(0,170,639,479);
               exit_button();
               setcolor(15);
               outtextxy(22,35, "BOOK..");
               outtextxy(150,25,"BOOK NAME:");
               outtextxy(250,25,bk9.book_name);
               outtextxy(150,78,"AUTHOR :");
               outtextxy(250,78,bk9.author);
               outtextxy(150,131,"PRICE
               gotoxy(32,9);
               cout << bk9.price;</pre>
               gotoxy(2,12);
               cout << bk9.content;</pre>
               mouse();
```

```
exitid=mouse_click_for_readbook(cor_x,cor_y);
                switch(exitid)
                case 1:
                     exit_ans=exit_confirm();
                    if(exit_ans=='y')
                        return ;
                default:
                    goto book_read;
            filbookread.read((char *) &bk9,sizeof(bk9));
        filbookread.close();
end_read_book:
class user
public:
    int user_id;
    char user_name[20];
    char user_pass[20];
    char contact[20];
    char dob[20];
    int member_type;
    long amount;
    int book_issue_id[3];
    int book_buy_id[50];
    user(void);
    int get_data(void);
    void credits(void);
    void setting(void);
};
user::user()
    user_id=0;
    strcpy(user_name,"");
    strcpy(user_pass,"");
    strcpy(contact, " ");
    strcpy(dob, "");
    member_type=-1;
    amount=0.0;
    book_issue_id[0]=book_issue_id[1]=book_issue_id[2]=0;
    for(int i=0; i<50; ++i)</pre>
        book_buy_id[i]=0;
int user::get_data()
    char pass[20],member[20];
    strcpy(member,"");
    strcpy(pass, "");
    int x_out=120,y_out=100,i,mouse_signup=-1;
    char exit_choice=NULL;
reenter:
    int check=0;
    clrscr();
    cleardevice();
    setcolor(1);
    settextstyle(0,0,3);
    outtextxy(240,40,"SIGN UP");
    rectangle(100,20,545,450);
    setcolor(5);
    for(i=94; i<=286; i+=32)
        rectangle(275,i,520,i+18);
    setcolor(9);
    settextstyle(0,0,1);
    outtextxy(x_out,y_out,"User_Name:");
```

```
outtextxy(x_out, (y_out+32), "Password:");
   outtextxy(x_out,(y_out+64),"RE_Enter Password:");
   outtextxy(x_out,(y_out+98),"Contact_NO:");
   outtextxy(x_out,(y_out+130),"Date_Of_Birth:");
   outtextxy(x_out,(y_out+162),"Membership_Type:");
   outtextxy(x_out,(y_out+196),"Enter Amount:");
   setfillstyle(SOLID_FILL,8);
   bar(240,400,400,430);
   setcolor(15);
   outtextxy((x_out+135),(y_out+312),"Create_My_Account");
   exit_button();
signup_mouse:
   mouse();
   switch( mouse_signup)
   case 1:
       goto fill_form;
   case 2:
       exit_choice=exit_confirm();
       if(exit_choice=='y')
           return -1;
       else if(exit_choice=='n')
           goto reenter;
       break;
   default:
       goto signup_mouse;
fill_form:
   gotoxy(36,7);
   cin.getline(user_name,20);
   gotoxy(36,9);
   cin.getline(user_pass,20);
   gotoxy(36,11);
   cin.getline(pass,20);
   gotoxy(36,13);
   cin.getline(contact, 20);
   gotoxy(36,15);
   cin.getline(dob,20);
   gotoxy(36,17);
   cin.getline(member,20);
   gotoxy(36,19);
   cin>>amount;
   cin.ignore();
signup_button:
   mouse();
   int mouse_s=mouse_click_for_signup(cor_x,cor_y);
   switch( mouse_s)
   case 2:
       exit_choice=exit_confirm();
       if(exit_choice=='y')
           return -1;
       else if(exit_choice=='n')
           goto reenter;
   case 3:
       goto check;
   default:
       goto signup_button;
check:
   user us;
   int check1=-1;
   ifstream filinf2;
   filinf2.open("user",ios::in|ios::binary);
   if(!filinf2)
       cout << "cannot open file!!";</pre>
       delay(2000);
       exit(0);
   filinf2.seekg(0);
```

```
while(filinf2)
        filinf2.read((char *) &us,sizeof(us));
        if(strcmp(user_name, us.user_name) == 0)
             check1=0;
    filinf2.close();
    if(check1==0)
        clrscr();
        cleardevice();
        check=0;
        cout<<"user name already used";</pre>
        mouse();
        goto reenter;
    if(strcmp(user_name, "") == 0 | |strcmp(user_pass, "") == 0 | |
             strcmp(dob, "") == 0 | strcmp(member, "") == 0 | strcmp(pass, "")
             ==0 | strcmp(contact, " ") == 0)
        cout<<"Please fill all details...";</pre>
        check=-1;
    else if(strcmp(user_pass,pass)!=0)
        cout<<"Please enter password correctly...";</pre>
        check=-1;
    else if((strcmp(member, "regular")!=0)&&(strcmp(member, "premium")!=0)
             &&(strcmp(member, "admin")!=0))
        cout<<"Membership type must be 'regular' or 'premium'...";</pre>
        check=-1;
    else if(amount<5000)</pre>
        cout<<"Amount must be greater than 5000.";</pre>
        check=-1;
    if(check!=0)
        mouse();
        goto reenter;
    else
        if(strcmp(member, "regular") == 0)
             member_type=2;
             amount-=500;
        else if(strcmp(member, "premium") == 0)
             member_type=1;
             amount-=1000;
        else if(strcmp(member, "admin") == 0)
             member_type=0;
             amount-=1000;
    setcolor(15);
    return 0;
void user::setting()
    int i,ch_setting=-1;
    char exit_choice, member[20];
start_setting:
```

```
clrscr();
    cleardevice();
    setcolor(3);
    settextstyle(3,1,7);
    outtextxy(5,150,"SETTING");
    setcolor(15);
    settextstyle(0,0,1);
    setfillstyle(SOLID_FILL,9);
    bar(400,0,639,300);
    setfillstyle(SOLID_FILL,4);
    bar(10,40,90,120);
    setting_button(50,78);
    gotoxy(15,4);
    cout << "USER NAME
                           :"<<user_name;
    gotoxy(15,7);
    cout << "PASSWORD</pre>
                           :"<<user_pass;
    gotoxy(15,10);
    cout<<"DATE OF BIRTH :"<<dob;</pre>
    gotoxy(15,13);
    cout<<"CONTACT NO.</pre>
                            :"<<contact;
    switch(member_type)
    case 0:
        gotoxy(15,16);
        cout << "MEMBERSHIP TYPE:ADMINISTRATOR";</pre>
        break;
    case 1:
        gotoxy(15,16);
        cout << "MEMBERSHIP TYPE:PREMIUM";</pre>
        break;
    case 2:
        gotoxy(15,16);
        cout<<"MEMBERSHIP TYPE:REGULAR";</pre>
    gotoxy(15,19);
    cout << "ACCOUNT BALANCE: " << amount;</pre>
    for(i=35; i<=290; i+=50)</pre>
        setfillstyle(SOLID_FILL,8);
        bar(400,i,639,i+30);
    exit_button();
    outtextxy(420,45,"CHANGE USERNAME");
    outtextxy(420,95,"CHANGE PASSWORD");
    outtextxy(420,145, "CHANGE DATE OF BIRTH");
    outtextxy(420,195, "CHANGE CONTACT NO.");
    outtextxy(420,245,"CHANGE MEMBERSHIP TYPE");
    outtextxy(420,295,"RECHARGE ACCOUNT");;
mouse_pre:
    mouse();
    ch_setting=mouse_click_for_setting(cor_x,cor_y);
    switch(ch_setting)
    case 1:
        gotoxy(10,23);
        cout<<"Enter your new user name:";</pre>
        gotoxy(37,23);
        cin>>user_name;
        cin.ignore();
        break;
    case 2:
        gotoxy(10,23);
        cout << "Enter your new password:";</pre>
        gotoxy(35,23);
        cin>>user_pass;
        cin.ignore();
        break;
    case 3:
        gotoxy(10,23);
        cout<<"Enter your new Date of birth:";</pre>
        gotoxy(41,23);
```

```
cin>>dob;
        cin.ignore();
        break;
    case 4:
        gotoxy(10,23);
        cout << "Enter your new contact no.:";</pre>
        gotoxy(39,23);
        cin>>contact;
        cin.ignore();
        break;
    case 5:
        gotoxy(10,23);
        cout<<"Enter your new membership type:";</pre>
        gotoxy(43,23);
        cin.getline(member,20);
        if(strcmp(member, "regular") == 0)
            member_type=2;
        else if(strcmp(member, "premium") == 0)
            member_type=1;
        else if(strcmp(member, "admin") == 0)
            member_type=0;
        break;
    case 6:
        int amt;
        gotoxy(10,23);
        cout << "Enter the amount to recharge:";</pre>
        gotoxy(41,23);
        cin>>amt;
        amount+=(amt*0.9);
        cin.ignore();
        break;
    case 7
        exit_choice=exit_confirm();
        if(exit_choice=='y')
            return ;
        else if(exit choice=='n')
            goto start_setting;
    default:
        goto mouse_pre;
    goto start_setting;
void user::credits()
    cleardevice();
    int i,j,k,x;
    settextstyle(1,0,2);
    for (x=0; x<350; x++)
        k=random(15)+1;
        setcolor(k);
        i=random(600);
        j=random(460);
        outtextxy(i,j,"HTCL");
    setfillstyle(SOLID_FILL,7);
    setcolor(4);
    settextstyle(0,0,1);
    bar(200,190,420,330);
    outtextxy(275,210,"MADE BY");
    outtextxy(220,240,"Master Dhaval Khatri");
    outtextxy(220,270, "Master Mayank Vaishnav");
    outtextxy(220,300,"Master Deepanshu Sharma");
    mouse();
    setfillstyle(SOLID_FILL,7);
    bar(200,70,420,420);
```

```
setcolor(4);
    outtextxy(260,90, "Special Thanks");
    outtextxy(310,120,"TO");
    settextstyle(0,0,1);
    outtextxy(240,150,"Mr.Vinod Mishra");
    outtextxy(240,180,"Vatsal Desai");
    outtextxy(240,210, "Sejal Santoki");
    outtextxy(240,240,"Priya Goyani");
    outtextxy(240,270, "Simran Agarwal");
    outtextxy(240,300,"Nikita Patel");
    outtextxy(240,330,"Pryogini Dalai");
outtextxy(240,360,"Ketan Patel");
    outtextxy(240,390,"Ankit Sudani");
    mouse();
class admin:public user
public:
    void delete_user(void);
    void delete_book(void);
    void bookadd(void);
void admin::bookadd(void)
    book bk;
start:
    int x_out=30,y_out=100,i;
    char exit_choice;
    clrscr();
    cleardevice();
    setcolor(11);
    settextstyle(0,0,3);
    outtextxy(240,40,"ADD BOOK");
    setcolor(5);
    rectangle(20,25,620,220);
    for(i=94; i<=190; i+=32)
        rectangle(180,i,505,i+18);
    rectangle(0,250,639,430);
    settextstyle(0,0,1);
    setcolor(11);
    outtextxy(x_out,y_out,"BOOK ID: ");
    outtextxy(x_out,(y_out+32),"BOOK NAME: ");
    outtextxy(x_out,(y_out+64),"AUTHOR NAME: ");
    outtextxy(x_out,(y_out+98),"BOOK PRICE: ");
    outtextxy(x_out,(y_out+130),"BOOK CONTENT: ");
    setfillstyle(SOLID_FILL,4);
    setcolor(0);
    bar(240,440,400,470);
    outtextxy(260,455,"Insert the Book");
    exit_button();
mouse re:
    int choice=mouse_click_for_add_book(cor_x,cor_y);
    switch(choice)
    case 1:
        goto out;
    case 2:
        exit_choice=exit_confirm();
        if(exit_choice=='y')
            return;
        else if(exit_choice=='n')
            goto start;
    default:
        goto mouse_re;
    gotoxy(24,7);
    cin>>bk.book_id;
    cin.ignore();
```

```
gotoxy(24,9);
    cin.getline(bk.book_name,40);
    gotoxy(24,11);
    cin.getline(bk.author,20);
    gotoxy(24,13);
    cin>>bk.price;
    cin.ignore();
    gotoxy(2,17);
    cin.getline(bk.content,200);
mouse_ag:
    mouse();
    int choice1=mouse_click_for_add_book(cor_x,cor_y);
    switch(choice1)
    case 2:
        exit_choice=exit_confirm();
        if(exit_choice=='y')
            return;
        else if(exit_choice=='n')
            goto start;
    case 3:
        ofstream filbook3;
        filbook3.open("book",ios::app|ios::binary);
        filbook3.write((char *) &bk,sizeof(bk));
        filbook3.close();
        break;
    default:
        goto mouse_ag;
    goto start;
void admin::delete_book()
   book bk6,bk7;
re_display:
    int buk_delete_id;
    char confirm='n';
    clrscr();
    cleardevice();
    buk_delete_id=book_display(4);
    if(buk_delete_id==0)
        goto re_display;
    else if(buk_delete_id==-1)
        clrscr();
        cleardevice();
        return;
    ifstream filbooktrans;
    filbooktrans.open("book",ios::in|ios::binary);
    if(!filbooktrans)
        cout << "cannot open file!!";</pre>
        delay(2000);
        return ;
    ofstream bookdelete;
    bookdelete.open("temp",ios::out|ios::binary);
    if(!bookdelete)
        cout << "cannot open file!!";</pre>
        delay(2000);
        return ;
    filbooktrans.seekg(0);
    filbooktrans.read((char *) &bk7,sizeof(bk7));
    while(filbooktrans)
        if(buk_delete_id==bk7.book_id)
```

```
confirm=deletebook_confirm();
            if(confirm=='n')
                bookdelete.write((char *) &bk7,sizeof(bk7));
                filbooktrans.close();
                bookdelete.close();
                remove("temp");
                goto re_display;
        else
            if(bk7.book_id>buk_delete_id)
                bk7.book id-=1;
            bookdelete.write((char *) &bk7,sizeof(bk7));
        filbooktrans.read((char *) &bk7,sizeof(bk7));
    filbooktrans.close();
    bookdelete.close();
    remove("book");
    rename("temp", "book");
    goto re_display;
void admin::delete_user()
    user ur1,ur2;
start:
    char confirm='n',usr_delete_name[20];
    int dumy=1,last=0,i,delete_id,pos=1,buk_id;
    char exit_choice=NULL;
re_display:
    clrscr();
    cleardevice();
    last=0;
    setcolor(15);
    setfillstyle(SOLID_FILL, BLUE);
    bar(0,0,639,90);
    settextstyle(0,0,4);
    outtextxy(160,30,"DELETE USER");
    settextstyle(0,0,1);
    outtextxy(50,100,"USER NAME");
    outtextxy(250,100,"ACCOUNT TYPE");
    outtextxy(510,100,"ACCOUNT BAL");
    ifstream fileuserdisp;
    fileuserdisp.open("user",ios::in|ios::binary);
    if(! fileuserdisp)
        cout << "cannot open file!!";</pre>
        delay(2000);
        return ;
    exit_button();
    if(pos>4)
        setfillstyle(SOLID_FILL,9);
        bar(39,330,130,360);
        outtextxy(55,342,"PREVIOUS");
    setfillstyle(SOLID_FILL,1);
    bar(510,330,590,360);
    outtextxy(535,342,"NEXT");
    fileuserdisp.seekg(0);
    setcolor(15);
    for(int k=0; k<pos; ++k)</pre>
        fileuserdisp.read((char *) &url,sizeof(url));
    int d, f=10;
    for (d=148,i=0; i<4&& fileuserdisp!=0; d+=48,++i)</pre>
```

```
rectangle(40,d-11,590,d+21);
        gotoxy(8,f);
        cout <<url .user_name;</pre>
        gotoxy(66,f);
        cout <<url.amount;</pre>
        gotoxy(42,f);
        cout <<url .member_type;</pre>
        f += 3;
        fileuserdisp.read((char *) &url,sizeof(url));
        ++pos;
        last++;
re_ans:
    mouse();
    int choice=mouse_click_for_diplay(cor_x,cor_y);
    switch(choice)
    case 0:
    case 1:
    case 2:
    case 3:
        if(choice>last)
            pos-=last;
            goto re_ans;
        delete_id=((pos+choice)-last);
        pos-=last;
        fileuserdisp.close();
        break;
    case 4:
        fileuserdisp.close();
        if(pos>4)
            pos-=(4+last);
        else
            pos=1;
        goto re_display;
    case 5:
        if( fileuserdisp==0)
            pos=1;
            fileuserdisp.close();
        goto re_display;
    case 6:
        exit_choice=exit_confirm();
        fileuserdisp.close();
        setcolor(15);
        if(exit_choice=='y')
           return ;
        else if(exit_choice=='n')
            pos-=last;
            goto re_display;
    default:
        goto re_ans;
    strcpy(usr_delete_name,"");
    ifstream filusertrans;
    filusertrans.open("user",ios::in|ios::binary);
    if(!filusertrans)
        cout<<"cannot open file!!";</pre>
        delay(2000);
        return ;
    ofstream userdelete;
    userdelete.open("temp",ios::out | ios::binary);
```

```
if(!userdelete)
        cout<<"cannot open file!!";</pre>
        delay(2000);
        return ;
    filusertrans.seekg(0);
    filusertrans.read((char *) &ur2,sizeof(ur2));
    while(filusertrans)
        if(dumy==delete_id)
            strcpy(usr_delete_name,ur2.user_name);
        ++dumy;
        if(strcmp(usr_delete_name,ur2.user_name)==0)
            confirm=deleteuser_confirm();
            if(confirm=='n')
                userdelete.write((char *) &ur2,sizeof(ur2));
                filusertrans.close();
                userdelete.close();
                remove("temp");
                goto re_display;
        else
            userdelete.write((char *) &ur2,sizeof(ur2));
        filusertrans.read((char *) &ur2,sizeof(ur2));
    filusertrans.close();
    userdelete.close();
    remove("user");
    rename("temp","user");
    goto start;
class regular:public user
public:
    void issue book(void);
    void return_book(void);
void regular::issue_book()
   book bk2;
start:
    setcolor(7);
    int repeat=-1,buk_issue_id=-1,buk_id_check=-1;
    int buk_stock_check=-1,check=-1,i,pos,d;
    clrscr();
    cleardevice();
    buk_issue_id=book_display(1);
    if(buk_issue_id==-1)
        clrscr();
        cleardevice();
        return;
    ifstream filbookmatch;
    filbookmatch.open("book",ios::in|ios::binary);
    if(!filbookmatch)
        cout << "cannot open file!!";</pre>
        delay(2000);
        return ;
    filbookmatch.seekg(0);
    filbookmatch.read((char *) &bk2,sizeof(bk2));
    while(filbookmatch)
```

```
if(bk2.book_id==buk_issue_id)
            pos=filbookmatch.tellg();
            buk_id_check=0;
            buk_stock_check=bk2.issue_stock;
            break:
        filbookmatch.read((char *) &bk2,sizeof(bk2));
    filbookmatch.close();
    if(buk_stock_check==0&&buk_id_check==0)
        cleardevice();
        outtextxy(200,350,"Sorry the book is out of stock");
        mouse();
    else if(buk_id_check==0&&buk_stock_check!=0)
        ofstream filbookissue;
        filbookissue.open("book",ios::in|ios::binary);
        if(!filbookissue)
            cout << "cannot open file!!";</pre>
            delay(2000);
            return ;
        for(i=0; i<3; ++i)</pre>
            if(book_issue_id[i]==buk_issue_id)
                repeat=0;
                goto out;
            if(book_issue_id[i]==0)
                book_issue_id[i]=buk_issue_id;
                check=0;
                bk2.issue stock-=1;
                filbookissue.seekp(pos-sizeof(bk2));
                filbookissue.write((char *) &bk2,sizeof(bk2));
                filbookissue.close();
                break;
out:
        cleardevice();
        if(check==0)
            issue_sucess();
        else if(repeat==0)
            outtextxy(200,200,"Book is already issued!!!");
            mouse();
        else
            outtextxy(200,200,"No more books can be issued!!!");
            mouse();
    goto start;
void regular::return_book()
    book bk3;
start:
    int i,d,return_id,book_return_index,pos;
    char exit_choice;
return_book:
    int k=0;
    setcolor(7);
    cleardevice();
    setfillstyle(SOLID_FILL, BLUE);
```

```
bar(0,0,639,90);
    settextstyle(0,0,4);
    outtextxy(160,30,"RETURN BOOK");
    settextstyle(0,0,1);
    exit_button();
    outtextxy(70,100,"BOOK NAME");
    outtextxy(350,100,"AUTHOR");
    outtextxy(510,100,"PRICE");
    ifstream filbookread;
    filbookread.open("book",ios::in|ios::binary);
    if(!filbookread)
        cout<<"cannot open file!!";</pre>
        delay(2000);
        return ;
    filbookread.seekg(0);
    filbookread.read((char *) &bk3,sizeof(bk3));
    int f=10,dumy[3]= {0,0,0};
    setcolor(15);
    for (d=148,i=0; i<3;)</pre>
        if(book_issue_id[i]==bk3.book_id)
            dumy[k]=bk3.book_id;
            rectangle(40,d-11,590,d+21);
            dumy[i]=bk3.book_id;
            gotoxy(8,f);
            cout << bk3.book_name;</pre>
            gotoxy(66,f);
            cout << bk3.price;</pre>
            gotoxy(42,f);
            cout << bk3.author;</pre>
            f += 3;
            d+=48;
            ++i;
            ++k;
            filbookread.seekg(0);
        if(book_issue_id[i]==0)
            break;
        filbookread.read((char *) &bk3,sizeof(bk3));
    filbookread.close();
return_mouse:
    mouse();
    int re_id=mouse_click_for_diplay(cor_x,cor_y);
    switch(re_id)
    case 0:
    case 1:
    case 2:
        if(dumy[re_id]==0)
            goto return_mouse;
        return_id=dumy[re_id];
        break;
    case 6:
        exit_choice=exit_confirm();
        if(exit_choice=='y')
            return;
        else if(exit_choice=='n')
            goto return_book;
    default:
        goto return_mouse;
    for(i=0; i<3; ++i)</pre>
        if(return_id==book_issue_id[i])
            book_return_index=i;
```

```
ifstream filbookmatch;
    filbookmatch.open("book",ios::in|ios::binary);
    if(!filbookmatch)
        cout<<"cannot open file!!";</pre>
        delay(2000);
        return ;
    filbookmatch.seekg(0);
    filbookmatch.read((char *) &bk3,sizeof(bk3));
    while(filbookmatch)
        if(bk3.book id==return id)
            pos=filbookmatch.tellg();
            break;
        filbookmatch.read((char *) &bk3,sizeof(bk3));
    filbookmatch.close();
    ofstream filbookreturn;
    filbookreturn.open("book",ios::in|ios::binary);
    if(!filbookreturn)
        cout << "cannot open file!!";</pre>
        delay(2000);
        return ;
    book_issue_id[book_return_index]=0;
    for(i=book_return_index; i<2; ++i)</pre>
        book_issue_id[i]=book_issue_id[i+1];
    book_issue_id[2]=0;
    bk3.issue_stock+=1;
    filbookreturn.seekp(pos-sizeof(bk3));
    filbookreturn.write((char *) &bk3,sizeof(bk3));
    return_sucess();
    filbookreturn.close();
    goto start;
class premium:public regular
public:
    void buy_book(void);
    void sell_book(void);
void premium::buy_book()
   book bk4;
start:
    int repeat=-1,buk_buy_id=-1,buk_id_check=-1;
    int buk_stock_check=-1,check=-1,i,pos,d;
    clrscr();
    cleardevice();
    buk_buy_id=book_display(2);
    if(buk_buy_id==-1)
        clrscr();
        cleardevice();
        return;
    ifstream filbookmatch;
    filbookmatch.open("book",ios::in|ios::binary);
    if(!filbookmatch)
        cout << "cannot open file!!";</pre>
        delay(2000);
        return ;
```

```
filbookmatch.seekg(0);
    filbookmatch.read((char *) &bk4,sizeof(bk4));
    while(filbookmatch)
        if(bk4.book_id==buk_buy_id)
            pos=filbookmatch.tellg();
            buk_id_check=0;
            buk_stock_check=bk4.buy_stock;
        filbookmatch.read((char *) &bk4,sizeof(bk4));
    filbookmatch.close();
    if(buk_stock_check==0&&buk_id_check==0)
        outtextxy(200,350,"Sorry the book is out of stock");
    else if(buk_id_check==0&&buk_stock_check!=0)
        ofstream filbookbuy;
        filbookbuy.open("book",ios::in|ios::binary);
        if(!filbookbuy)
            cout << "cannot open file!!";</pre>
            delay(2000);
            return ;
        for(i=0; i<3; ++i)</pre>
            if(book_buy_id[i]==buk_buy_id)
                repeat=0;
                goto out;
            if(book_buy_id[i]==0)
                book_buy_id[i]=buk_buy_id;
                check=0;
                bk4.buy_stock-=1;
                amount=amount-bk4.price;
                filbookbuy.seekp(pos-sizeof(bk4));
                filbookbuy.write((char *) &bk4,sizeof(bk4));
                filbookbuy.close();
                break;
            }
        }
out:
        cleardevice();
        if(check==0)
            buy_sucess();
        else if(repeat==0)
            outtextxy(200,200,"Book is already buyed!!!");
            mouse();
        else
            outtextxy(200,200,"No more books can be bought!!!");
        mouse();
    goto start;
void premium::sell_book()
    book bk5;
start:
    int i,d,return_id,book_issue_index,pos;
    char exit_choice;
return_book:
    int k=0;
```

```
setcolor(7);
    cleardevice();
    setfillstyle(SOLID_FILL, BLUE);
    bar(0,0,639,90);
    settextstyle(0,0,4);
    outtextxy(180,30,"SELL BOOK");
    settextstyle(0,0,1);
    exit_button();
    outtextxy(70,100,"BOOK NAME");
    outtextxy(330,100,"AUTHOR");
    outtextxy(510,100,"PRICE");
    ifstream filbookread;
    filbookread.open("book",ios::in|ios::binary);
    if(!filbookread)
        cout << "cannot open file!!";</pre>
        return ;
    filbookread.seekg(0);
    setcolor(15);
    filbookread.read((char *) &bk5,sizeof(bk5));
    int f=10,dumy[3]= {0,0,0};
    for (d=148, i=0; i<3;)
        if(book_buy_id[i]==bk5.book_id)
            dumy[k]=bk5.book_id;
            rectangle(40,d-11,590,d+21);
            dumy[i]=bk5.book_id;
            gotoxy(8,f);
            cout << bk5.book_name;</pre>
            gotoxy(66,f);
            cout << bk5.price;</pre>
            gotoxy(42,f);
            cout < < bk5 .author;</pre>
            f += 3;
            d+=48;
            filbookread.seekg(0);
            ++i;
            ++k;
        if(book_buy_id[i]==0)
            break;
        filbookread.read((char *) &bk5,sizeof(bk5));
    filbookread.close();
return mouse:
    mouse();
    int re_id=mouse_click_for_diplay(cor_x,cor_y);
    switch(re_id)
    case 0:
    case 1:
    case 2:
        return_id=dumy[re_id];
        break;
    case 6:
        exit_choice=exit_confirm();
        if(exit_choice=='y')
            return;
        else if(exit_choice=='n')
           goto return_book;
    default:
        goto return_mouse;
    if(return_id==0)
        goto return_book;
    for(i=0; i<3; ++i)</pre>
        if(return_id==book_buy_id[i])
```

```
book_issue_index=i;
           char sell_conf = sell_confirm();
           if(sell_conf=='n')
               goto return_book;
   ifstream filbookmatch;
   filbookmatch.open("book",ios::in|ios::binary);
   if(!filbookmatch)
       cout << "cannot open file!!";</pre>
       return ;
   filbookmatch.seekq(0);
   filbookmatch.read((char *) &bk5,sizeof(bk5));
   while(filbookmatch)
       if(bk5.book_id==return_id)
           pos=filbookmatch.tellg();
           break;
       filbookmatch.read((char *) &bk5,sizeof(bk5));
   filbookmatch.close();
   ofstream filbooksell;
   filbooksell.open("book",ios::in|ios::binary);
   if(!filbooksell)
       cout << "cannot open file!!";</pre>
       return ;
   book_buy_id[book_issue_index]=0;
   for(i=book_issue_index; i<2; ++i)</pre>
       book_buy_id[i]=book_buy_id[i+1];
   book_buy_id[2]=0;
   bk5.buy_stock+=1;
   amount=amount+(bk5.price*0.8);
   filbooksell.seekp(pos-sizeof(bk5));
   filbooksell.write((char *) &bk5,sizeof(bk5));
   filbooksell.close();
   goto start;
END OF CLASS DEFINATION
user signin(void);
void admin_home_page(admin ad);
void premium_home_page(premium pre);
void regular_home_page(regular reg);
user us;
admin ad;
regular reg;
premium pre;
                         BODY OF MAIN
**************************************
void main()
   int member;
   int gdriver=DETECT, gmode, errorcode;
   initgraph(&gdriver, &gmode, "");
   cleardevice();
   setlinestyle(0,1,3);
   setfillstyle(SOLID_FILL, 15);
   bar(0,0,640,480);
   setcolor(5);
   settextstyle(1,0,15);
```

```
outtextxy(170,100,"HTCL");
   setcolor(9);
   settextstyle(0,0,2);
   outtextxy(95,300,"Hi-TECH COMPUTERISED LIBRARY");
   mouse();
main_start:
   clrscr();
   cleardevice();
   us=signin();
   cleardevice();
   switch(us.member_type)
   case 0:
       strcpy(ad.user_name,us.user_name);
       strcpy(ad.user_pass,us.user_pass);
       strcpy(ad.contact,us.contact);
       strcpy(ad.dob,us.dob);
       ad.member_type=us.member_type;
       ad.amount=us.amount;
       ad.book_issue_id[0]=us.book_issue_id[0];
       ad.book_issue_id[1]=us.book_issue_id[1];
       ad.book_issue_id[2]=us.book_issue_id[2];
       admin_home_page(ad);
       break;
   case 1:
       strcpy(pre.user_name,us.user_name);
       strcpy(pre.user_pass,us.user_pass);
       strcpy(pre.contact,us.contact);
       strcpy(pre.dob,us.dob);
       pre.member_type=us.member_type;
       pre.amount=us.amount;
       for(int i=0; i<3; ++i)</pre>
           pre.book_issue_id[i]=us.book_issue_id[i];
           pre.book_buy_id[i]=us.book_buy_id[i];
       premium_home_page(pre);
       break;
   case 2:
       strcpy(reg.user_name,us.user_name);
       strcpy(reg.user_pass,us.user_pass);
       strcpy(reg.contact,us.contact);
       strcpy(reg.dob,us.dob);
       reg.member_type=us.member_type;
       reg.amount=us.amount;
       reg.book_issue_id[0]=us.book_issue_id[0];
       reg.book_issue_id[1]=us.book_issue_id[1];
       reg.book_issue_id[2]=us.book_issue_id[2];
       regular_home_page(reg);
       break;
   goto main_start;
END OF MAIN
**************************
/**********************
                        HOME PAGE
void admin_home_page(admin ad)
   int mouse_check_ad=-1;
   char member[10];
user_homestart://7
   clrscr();
   cleardevice();
   ubuntu(232,280);
   setcolor(YELLOW);
   setfillstyle(SOLID_FILL,4);
   bar(9,0,79,80);
   bar(85,0,155,80);
```

```
bar(161,0,231,80);
   bar(237,0,307,80);
   bar(313,0,383,80);
   bar(389,0,459,80);
   setfillstyle(SOLID_FILL,14);
   bar(464,1,639,189);
   side_bar();
   setcolor(14);
   logo(44,35,1,1);
   outtextxy(14,70,"CREDITS");
   setfillstyle(SOLID_FILL,14);
   bar(107,10,132,50);
   bar(143,40,148,65);
   bar(137,50,154,55);
   outtextxy(90,70,"ADD BOOK");
   bar(183,10,208,50);
   line(212,55,228,67);
   line(212,67,228,55);
   outtextxy(165,70,"DEL BOOK");
   circle(272,12,10);
                                   //remove
   circle(269,11,1);
                                  //eye
   circle(275,11,1);
   line(272,22,272,52);
   line(272,28,262,38);
   line(272,28,282,38);
   line(272,52,262,60);
   line(272,52,282,60);
   setcolor(10);
   line(287,55,305,67);
   line(287,67,305,55);
   setcolor(14);
   outtextxy(242,70,"DEL USER");
   setcolor(14);
   circle(348,30,20);
   line(348,40,348,60);
   setfillstyle(SOLID_FILL,4);
   bar(342,40,347,65);
   bar(349,40,353,65);
   outtextxy(317,70,"SIGN OUT");
   outtextxy(400,70,"SETTING");
   setting_button(422,38);
   setfillstyle(SOLID_FILL,0);
   bar(480,20,620,170);
   logo(550,95,5,3);
   line(460,190,639,190);
   gotoxy(59,15);
   cout << "USER_NAME : " << ad.user_name;</pre>
   gotoxy(59,18);
   cout << "MEMBERSHIP:Admin";</pre>
   gotoxy(59,21);
   cout<<"AMOUNT</pre>
                    :"<<ad.amount;
   gotoxy(59,24);
   cout<<"DOB
                    :"<<ad.dob;
mouse_ad:
   mouse();
   mouse_check_ad=mouse_click_for_admin_home(cor_x,cor_y);
   switch(mouse_check_ad)
   case 1:
       ad.credits(); //CREDITS
       break;
   case 2:
       ad.bookadd(); //ADD BOOK
       break;
   case 3:
       break;
   case 4:
       break;
   case 5:
       goto save_ad;
```

```
case 6:
        ad.setting();
        break;
    default:
        goto mouse_ad;
    settextstyle(0,0,1);
    goto user_homestart;
save_ad:
    admin add;
    fstream userdata;
    userdata.open("user",ios::in|ios::out|ios::binary);
    if(!userdata)
        cout << "cannot open file!!";</pre>
        delay(2000);
        return ;
    userdata.seekg(0);
    while(userdata)
        userdata.read((char *) &add,sizeof(add));
        if(strcmp(add.user_name,add.user_name)==0)
            int pos;
            pos=userdata.tellg();
            userdata.seekp(pos-sizeof(add));
            userdata.write((char *) &add,sizeof(add));
            break;
    userdata.close();
void premium_home_page(premium pre)
    int mouse_check_pre=-1,i=0,j=0,book_id_display;
    char member[10];
    book bk_pre,bk12;
user_homestart:
    clrscr();
    cleardevice();
    setfillstyle(SOLID_FILL, 15);
    bar(3,83,459,480);
    setfillstyle(SOLID_FILL,4);
    bar(5,0,71,80);
    bar(76,0,136,80);
    bar(141,0,201,80);
    bar(206,0,266,80);
    bar(271,0,331,80);
    bar(336,0,399,80);
    bar(404,0,464,80);
    setfillstyle(SOLID_FILL,14);
    bar (464,1,639,189);
    side_bar();
    setcolor(14);
    logo(44,35,1,1);
    outtextxy(14,70,"CREDITS");
    setfillstyle(SOLID_FILL,14);
    bar(85,10,112,50);
    bar(125,40,122,65);
    bar(115,50,132,55);
    outtextxy(86,70,"ISSUE");
    bar(150,10,175,50);
    bar(180,55,195,60);
    outtextxy(148,70,"RETURN");
    bar(219,25,254,55);
    rectangle(229,15,244,25);
    outtextxy(225,70,"BUY");
    bar(284,18,319,45);
    rectangle(294,45,309,58);
    outtextxy(286,70,"SELL");
```

```
circle(366,30,20);
    line(366,40,366,60);
    setfillstyle(SOLID_FILL,4);
    bar(360,40,365,65);
    bar(367,40,372,65);
    outtextxy(337,70,"SIGN_OUT");
    outtextxy(408,70,"SETTING");
    setting_button(435,38);
    setfillstyle(SOLID_FILL,0);
    setcolor(0);
    setlinestyle(SOLID_LINE,1,1);
    outtextxy(190,90,"ISSUED BOOKS"); // ISSUED BOOKS
    line(0,100,462,100);
    setfillstyle(SOLID_FILL,0);
    bar(8,110,455,160); //bar1
    bar(8,165,455,215);
    bar(8,220,455,270);
    line(0,280,462,280);
    outtextxy(190,285,"BUYED BOOKS"); // BUYED BOOKS
    line(0,300,462,300);
    setlinestyle(0,1,3);
    setfillstyle(SOLID_FILL,0);
    bar(8,310,455,360);
                                      //bar4
    bar(8,365,455,415);
    bar(8,420,455,470);
                                      //bar6
    setcolor(14);
    for (book_id_display=0,i=130,j=330; book_id_display<3;</pre>
            ++book_id_display,i+=55,j+=55)
        ifstream book_read;
        book_read.open("book",ios::in|ios::binary);
        if(!book_read)
            cout<<"cannot open file!!";</pre>
            return ;
        book_read.seekg(0);
        book_read.read((char *) &bk12,sizeof(bk12));
        while(book_read)
            if(bk12.book_id==pre.book_issue_id[book_id_display])
                settextstyle(0,0,1);
                outtextxy(25,i,bk12.book_name);
            if(bk12.book_id==pre.book_buy_id[book_id_display])
                settextstyle(0,0,1);
                outtextxy(25,j,bk12.book_name);
            book_read.read((char *) &bk12,sizeof(bk12));
        book_read.close();
    setcolor(15);
    gotoxy(59,15);
    cout<<"USER_NAME :"<<pre>pre.user_name;
    gotoxy(59,18);
    cout << "MEMBERSHIP:Premium";</pre>
    gotoxy(59,21);
    cout << "AMOUNT
                     : " << pre . amount;
    gotoxy(59,24);
                    :"<<pre.dob;
    cout<<"DOB
mouse_pre:
    mouse();
    mouse_check_pre=mouse_click_for_premium_home(cor_x,cor_y);
    switch(mouse_check_pre)
    case 1:
        bk_pre.read_book(pre.book_issue_id[0]);
        goto read_book;
```

```
bk_pre.read_book(pre.book_issue_id[1]);
       goto read_book;
    case 3:
       bk_pre.read_book(pre.book_issue_id[2]);
       goto read_book;
    case 4:
       bk_pre.read_book(pre.book_buy_id[0]);
       goto read_book;
    case 5:
       bk_pre.read_book(pre.book_buy_id[1]);
       goto read_book;
    case 6:
       bk_pre.read_book(pre.book_buy_id[2]);
       goto read book;
    case 7:
       pre.credits(); //CREDITS
       break;
    case 8:
       pre.issue_book();
       break;
   case 9:
       break;
    case 10:
       pre.buy_book();
       break;
    case 11:
       pre.sell_book();    //sell book
       break;
    case 12:
       goto save_pre;
    case 13:
       pre.setting();
       break;
   default:
       goto mouse_pre;
read_book:
   goto user_homestart;
save_pre:
   premium pr;
   fstream userdata;
   userdata.open("user",ios::in|ios::out|ios::binary);
   if(!userdata)
        cout<<"cannot open file!!";</pre>
       delay(2000);
       return ;
   userdata.seekg(0);
   while(userdata)
        userdata.read((char *) &pr,sizeof(pr));
        if(strcmp(pre.user_name,pr.user_name)==0)
           int pos;
           pos=userdata.tellg();
           userdata.seekp(pos-sizeof(pre));
           userdata.write((char *) &pre,sizeof(pre));
           break;
   userdata.close();
void regular_home_page(regular reg)
    char member[10];
    int check_mouse2=-1,i=0,book_id_display;
   book bk_reg,bk12;
user_homestart:
```

```
clrscr();
cleardevice();
setcolor(YELLOW);
setfillstyle(SOLID_FILL, 15);
bar(3,83,459,480);
setfillstyle(SOLID_FILL,4);
bar(5,0,85,80);
bar(95,0,175,80);
bar(185,0,275,80);
bar(285,0,365,80);
bar(375,0,455,80);
setcolor(14);
logo(44,35,1,1);
outtextxy(14,70,"CREDITS");
side bar();
setfillstyle(SOLID_FILL,14);
bar(120,10,145,50);
bar(160,40,157,65);
bar(150,50,167,55);
outtextxy(95,70,"ISSUE BOOK");
bar(217,10,242,50);
bar(247,55,262,60);
outtextxy(188,70,"RETURN BOOK");
setcolor(14);
circle(325,30,20);
line(325,40,325,60);
setfillstyle(SOLID_FILL,4);
bar(320,40,324,65);
bar(326,40,330,65);
outtextxy(295,70,"SIGN OUT");
outtextxy(388,70,"SETTING");
setting_button(415,38);
setfillstyle(SOLID_FILL,0);
logo(550,95,5,3); //logo
setcolor(0);
line(460,190,639,190);
setlinestyle(SOLID_LINE,1,1);
outtextxy(190,90,"ISSUED BOOKS");
line(0,100,462,100);
bar(8,110,453,220);
bar(8,230,453,340);
bar(8,350,453,460);
setlinestyle(0,1,3);
setcolor(14);
for (book_id_display=0,i=160; book_id_display<3; ++book_id_display,i+=120)</pre>
    ifstream book_read;
    book_read.open("book",ios::in|ios::binary);
    if(!book_read)
        cout << "cannot open file!!";</pre>
        return ;
    book_read.seekg(0);
    book_read.read((char *) &bk12,sizeof(bk12));
    while(book_read)
        if(bk12.book_id==reg.book_issue_id[book_id_display])
            settextstyle(0,0,1);
            outtextxy(25,i,bk12.book_name);
            book_read.seekg(0);
            break:
        book_read.read((char *) &bk12,sizeof(bk12));
    book_read.close();
setcolor(15);
gotoxy(59,15);
cout << "USER_NAME : " << reg.user_name;</pre>
gotoxy(59,18);
```

```
cout << "MEMBERSHIP:Regular";</pre>
    gotoxy(59,21);
    cout << "AMOUNT
                    :"<<reg.amount;
    gotoxy(59,24);
    cout<<"DOB
                    :"<<reg.dob;
    //working starts::::MENU
mouse homeuser:
   mouse();
    check_mouse2=mouse_click_for_regular_home(cor_x,cor_y);
    switch(check_mouse2)
       bk_reg.read_book(reg.book_issue_id[0]);
       goto read_book;
    case 2:
       bk_reg.read_book(reg.book_issue_id[1]);
       goto read_book;
    case 3:
       bk_reg.read_book(reg.book_issue_id[2]);
       goto read_book;
    case 4:
       req.credits();
       break;
    case 5:
       reg.issue_book();
       break;
    case 6:
        reg.return_book(); //RETURN BOOK
       break;
    case 7:
       goto end_home;
    case 8:
       reg.setting();
       break;//settings
    default:
       goto mouse_homeuser;
read book:
   goto user_homestart;
end_home:
    //FINAL MODIFICATION AT END
   regular urs;
   fstream userdata;
   userdata.open("user",ios::in|ios::out|ios::binary);
   if(!userdata)
       cout << "cannot open file!!";</pre>
       delay(2000);
       return ;
    userdata.seekg(0);
    while(userdata)
        userdata.read((char *) &urs,sizeof(urs));
        if(strcmp(reg.user_name, urs.user_name) == 0)
           int pos;
           pos=userdata.tellg();
           userdata.seekp(pos-sizeof(reg));
           userdata.write((char *) &reg,sizeof(reg));
   userdata.close();
/***********************************
                       END OF HOMEPAGE
                      FUNCTION DEFINATION
void side_bar()
```

```
{
    setfillstyle(SOLID_FILL,8);
    bar(464,1,639,189);
    setfillstyle(SOLID_FILL,0);
    bar(480,20,620,170);
    logo(550,95,5,3);
    setfillstyle(SOLID_FILL,8); // gap bar
    bar(464,195,639,223);
    bar(464,240,639,268);
    bar(464,288,639,318);
    bar(464,337,639,367);
    bar(464,385,639,415);
    bar (464,440,639,470);
    setcolor(15);
    settextstyle(1,0,2);
    outtextxy(530,415,"HTCL");
    settextstyle(0,0,1);
    setcolor(0);
void ubuntu(int xu,int yu)
    setcolor(14);
    setfillstyle(1,14);
    sector(xu-10,yu,230,110,96,100);
    setcolor(4);
    setfillstyle(1,4);
    sector(xu,yu+10,230,350,100,100);
    setcolor(12);
    setfillstyle(1,12);
    sector(xu+3,yu-5,0,110,100,100);
    sector(xu+3,yu-5,351,360,100,100);
    setcolor(0);
    setfillstyle(1,0);
    sector(xu,yu,0,360,80,80);
    sector(xu-120,yu-10,0,360,25,25);
    setcolor(4);
    setfillstyle(1,4);
    sector(xu-120,yu-10,0,360,15,15);
    setcolor(0);
    setfillstyle(1,0);
    sector(xu+35,yu+117,0,360,25,25);
    setcolor(12);
    setfillstyle(1,12);
    sector(xu+35,yu+117,0,360,15,15);
    setcolor(0);
    setfillstyle(1,0);
    sector(xu+65,yu-100,0,360,25,25);
    setcolor(14);
    setfillstyle(1,14);
    sector(xu+65,yu-100,0,360,15,15);
void wrong_password(void)
    clrscr();
    cleardevice();
    setfillstyle(SOLID_FILL,4);
    bar(180,140,420,290);
    settextstyle(0,0,9);
    setcolor(15);
    outtextxy(185,180,"!");
    settextstyle(0,0,2);
    outtextxy(285,195,"WRONG");
    outtextxy(260,220,"PASSWORD");
    settextstyle(0,0,1);
    mouse();
```

```
user signin(void)
{
   user ur;
   int check_pass,check_save;
   int check=-1,check1=-1,check_mouse=-1;
   char dob[15],username[20],password[20],exitc=NULL;
refill:
   check_mouse=-1;
   check1=-1;
   clrscr();
   cleardevice();
   setcolor(4);
   bar(50,95,130,380);
   settextstyle(1,0,8);
   outtextxy(65,80,"H");
   outtextxy(67,150,"T");
   outtextxy(69,220, "C");
   outtextxy(72,290,"L");
   settextstyle(0,0,0);
   logo(290,100,6,4);
   setfillstyle(SOLID_FILL,14);
   bar(160,200,400,350);
   setfillstyle(SOLID_FILL,0);
   bar(255,222,390,240); //PASSWORD
   bar(255,255,390,273);
   setfillstyle(SOLID_FILL,7);
   bar(499,0,639,479);
   setfillstyle(SOLID_FILL,4);
   bar(250,300,310,325); //CREATE ACCOUNT
   bar(499,215,639,235); //FORGOT PASSWORD
   bar(499,265,639,285); //EXIT
   bar(499,315,639,335);
   setcolor(14);
   outtextxy(252,310, "SIGN_IN");
   setcolor(0);
   outtextxy(168,228,"User_name");
   outtextxy(168,261,"Password");
   outtextxy(513,222, "CREATE ACCOUNT");
   outtextxy(512,272,"FORGOT PASSWORD");
   outtextxy(550,322,"EXIT");
mouse_signin:
   mouse();
   check_mouse=mouse_click_for_signin(cor_x,cor_y);
   switch(check_mouse)
   case 1:
       gotoxy(33,15);
       cin.getline(username,20);
       gotoxy(33,17);
       cin.getline(password,20);
       goto mouse_signin;
   case 2:
       goto out;
   case 3:
       check_save=ur.get_data();
       if(check_save==0)
           ofstream filout;
           filout.open("user",ios::app ios::binary);
           filout.write((char *) &ur,sizeof(ur));
           filout.close();
       goto refill;
   case 4:
       setfillstyle(SOLID_FILL,0);
       bar(499,0,639,479);
       setfillstyle(SOLID_FILL,4);
       bar(250,300,310,325);
       setcolor(15);
```

```
outtextxy(260,310,"ENTER");
        setcolor(0);
        outtextxy(168,228,"User_name");
        setfillstyle(SOLID_FILL,14);
        bar(160,260,250,280);
        outtextxy(170,261,"DOB");
se_signin:
        mouse();
        int check=mouse_click_for_signin(cor_x,cor_y);
        if(check!=1)
            goto se_signin;
        gotoxy(33,15);
        cin.getline(username,20);
        gotoxy(33,17);
        cin.getline(dob,15);
again:
        mouse();
        int check5=mouse_click_for_signin(cor_x,cor_y);
        if(check5!=2)
            goto again;
        ifstream filinf;
        filinf.open("user",ios::in|ios::binary);
        if(!filinf)
            cout << "cannot open file!!";</pre>
            exit(0);
        filinf.seekg(0);
        while(filinf)
            filinf.read((char *) &ur, sizeof(ur));
            if(strcmp(username,ur.user_name) == 0&&strcmp(dob,ur.dob) == 0)
                check1=0;
                break;
        filinf.close();
        if(check1==0)
            cleardevice();
            setfillstyle(SOLID_FILL,7);
            bar(180,120,420,300);
            setcolor(0);
            settextstyle(0,0,2);
            outtextxy(250,150,"YOUR");
            outtextxy(210,200,"PASSWORD IS");
            setcolor(9);
            outtextxy(240,260,ur.user_pass);
            delay(3000);
            settextstyle(0,0,1);
            cleardevice();
            setcolor(15);
            goto refill;
    break;
    case 5:
        exitc=exit_confirm();
        if(exitc=='y'||exitc=='Y')
            exit(0);
        else
            goto refill;
    default:
        goto mouse_signin;
out:
    cleardevice();
    ifstream filin;
    filin.open("user",ios::in|ios::binary);
    if(!filin)
```

```
cout << "cannot open file!!";</pre>
        delay(2000);
        exit(0);
    filin.seekg(0);
    while(filin)
        filin.read((char *) &ur, sizeof(ur));
        if(strcmp(username,ur.user_name)==0&&strcmp(password,ur.user_pass)==0)
            signin_sucess();
            check=0;
            break:
    if(check!=0)
        wrong_password();
        goto refill;
    filin.close();
    return ur;
int book_display(int operation)
    book bk8;
    int last=0,i,buk_issue_id,pos=1,buk_id;
    char exit_choice=NULL;
re_diplay:
    clrscr();
    cleardevice();
    last=0;
    ifstream filebookdisp;
    filebookdisp.open("book",ios::in|ios::binary);
    if(! filebookdisp)
        cout<<"cannot open file!!";</pre>
        delay(2000);
        return 0;
    }
    outtextxy(70,100,"BOOK NAME");
    outtextxy(350,100,"AUTHOR");
    outtextxy(510,100,"PRICE");
    setfillstyle(SOLID_FILL, BLUE);
    bar(0,0,639,90);
    settextstyle(0,0,4);
    switch(operation)
    case 1:
        outtextxy(160,30,"ISSUE BOOK");
        break;
    case 2:
        outtextxy(180,30,"BUY BOOK");
    case 3:
        outtextxy(180,30,"READ BOOK");
        break;
    case 4:
        outtextxy(170,30,"DELETE BOOK");
        break;
    settextstyle(0,0,1);
    exit_button();
    if(pos>4)
        setfillstyle(SOLID_FILL,9);
        bar(39,330,130,360);
        outtextxy(55,342,"PREVIOUS");
    setfillstyle(SOLID_FILL,1);
    bar(510,330,590,360);
    outtextxy(535,342,"NEXT");
```

```
filebookdisp.seekg(0);
    for(int k=0; k<pos; ++k)</pre>
        filebookdisp.read((char *) &bk8,sizeof(bk8));
    setcolor(15);
    int dumy[4] = {0,0,0,0};
    int d,f=10;
    for (d=148,i=0; i<4&&filebookdisp!=0; d+=48,f+=3,++i)</pre>
        rectangle(40,d-11,590,d+21);
        dumy[i]=bk8.book_id;
        gotoxy(8,f);
        cout <<bk8.book_name;</pre>
        gotoxy(65,f);
        cout << bk8.price;</pre>
        gotoxy(42,f);
        cout << bk8.author;</pre>
        filebookdisp.read((char *) &bk8,sizeof(bk8));
        ++pos;
        last++;
    }
re_ans:
    buk_issue_id=mouse_click_for_diplay(cor_x,cor_y);
    switch(buk_issue_id)
    case 0:
    case 1:
    case 2:
    case 3:
        if(dumy[buk_issue_id]==0)
           goto re_ans;
        buk_id=dumy[buk_issue_id];
        filebookdisp.close();
        break;
    case 4:
        filebookdisp.close();
        if(pos>4)
            pos-=(4+last);
        else
            pos=1;
        goto re_diplay;
    case 5:
        if( filebookdisp==0)
            pos=1;
            filebookdisp.close();
        goto re_diplay;
    case 6:
        exit_choice=exit_confirm();
        filebookdisp.close();
        if(exit_choice=='y')
            return -1;
        else if(exit_choice=='n')
            pos-=last;
            goto re_diplay;
        break;
    default:
        goto re_ans;
    return buk id;
void setting_button(int xu,int yu)
    setcolor(14);
    setfillstyle(1,14);
    sector(xu,yu,0,360,15,19);
/////////white circle
```

```
setcolor(4);
    setfillstyle(1,4);
    sector(xu,yu,0,360,7,11);
    setcolor(14);
    setfillstyle(1,14);
    sector(xu,yu-21,0,360,2,2);
    setcolor(14);
    setfillstyle(1,14);
    sector(xu,yu+21,0,360,2,2);
    setcolor(14);
    setfillstyle(1,14);
    sector(xu-17,yu,0,360,2,2);
    setcolor(14);
    setfillstyle(1,14);
    sector(xu+17,yu,0,360,2,2);
    setcolor(14);
    setfillstyle(1,14);
    sector(xu-12,yu-14,0,360,2,2);
    setcolor(14);
    setfillstyle(1,14);
    sector(xu+12,yu-14,0,360,2,2);
    setcolor(14);
    setfillstyle(1,14);
    sector(xu-12,yu+14,0,360,2,2);
    setcolor(14);
    setfillstyle(1,14);
    sector(xu+12,yu+14,0,360,2,2);
void signin_sucess()
    cleardevice();
    setfillstyle(SOLID_FILL,7);
    bar(180,120,420,300);
    setcolor(1);
    settextstyle(0,0,2);
    outtextxy(235,150,"YOU HAVE");
    outtextxy(205,200,"SUCCESSFULLY");
    outtextxy(230,260,"LOGGED IN");
    mouse();
    settextstyle(0,0,1);
    setcolor(15);
void issue_sucess()
    cleardevice();
    setfillstyle(SOLID_FILL,7);
    bar(180,120,420,290);
    setcolor(1);
    settextstyle(0,0,2);
    outtextxy(235,150,"YOU HAVE");
    outtextxy(205,200,"SUCCESSFULLY");
    outtextxy(180,250,"ISSUED THE BOOK");
    mouse();
    settextstyle(0,0,1);
void buy_sucess()
    cleardevice();
    setfillstyle(SOLID_FILL,7);
    bar(180,120,420,290);
    setcolor(1);
    settextstyle(0,0,2);
    outtextxy(235,150,"YOU HAVE");
    outtextxy(205,200,"SUCCESSFULLY");
    outtextxy(190,250, "BUYED THE BOOK");
    mouse();
    settextstyle(0,0,1);
```

```
void return_sucess()
    cleardevice();
    setfillstyle(SOLID_FILL,7);
    bar(170,120,450,290);
    setcolor(1);
    settextstyle(0,0,2);
    outtextxy(240,150,"YOU HAVE");
    outtextxy(210,200,"SUCCESSFULLY");
    outtextxy(175,250, "RETURNED THE BOOK");
    mouse();
    settextstyle(0,0,1);
    setcolor(15);
char return_confirm()
    cleardevice();
    setfillstyle(SOLID_FILL,7);
    bar(200,130,410,280);
    setfillstyle(SOLID_FILL,1);
    bar(230,230,280,260);
    bar(330,230,380,260);
    setcolor(4);
    settextstyle(0,0,1);
    outtextxy(255,150,"Are You Sure ");
    outtextxy(225,190, "to RETURN the book ?");
    outtextxy(245,240,"YES");
    outtextxy(350,240,"NO");
mouse_return:
    mouse();
    char return_choice=mouse_click_for_dialoge_box(cor_x,cor_y);
    if(return_choice!='y'&&return_choice!='n')
        goto mouse_return;
        settextstyle(0,0,1);
    return return_choice;
void sell_sucess()
    cleardevice();
    setfillstyle(SOLID FILL,7);
    bar(180,120,420,290);
    setcolor(1);
    settextstyle(0,0,2);
    outtextxy(235,150,"YOU HAVE");
    outtextxy(205,200,"SUCCESSFULLY");
    outtextxy(200,250, "SOLD THE BOOK");
    mouse();
    settextstyle(0,0,1);
char sell_confirm()
    cleardevice();
    setfillstyle(SOLID_FILL,7);
    bar(200,130,410,280);
    setfillstyle(SOLID_FILL,4);
    bar(230,230,280,260);
    bar(330,230,380,260);
    setcolor(0);
    settextstyle(0,0,1);
    outtextxy(255,150,"Are You Sure ");
    outtextxy(225,190,"to SELL the book ?");
    outtextxy(245,240,"YES");
    outtextxy(350,240,"NO");
mouse_sell:
    mouse();
    char sell_choice=mouse_click_for_dialoge_box(cor_x,cor_y);
    if(sell_choice!='y'&&sell_choice!='n')
        goto mouse_sell;
    else
        settextstyle(0,0,1);
```

```
return sell_choice;
char deletebook_confirm()
    cleardevice();
    setfillstyle(SOLID_FILL,7);
   bar(200,130,410,280);
    setfillstyle(SOLID_FILL,4);
   bar(230,230,280,260);
   bar(330,230,380,260);
   setcolor(0);
   settextstyle(0,0,1);
    outtextxy(255,150, "Are You Sure ");
   outtextxy(225,190,"to DELETE the Book ?");
   outtextxy(245,240,"YES");
   outtextxy(350,240,"NO");
mouse_del:
   mouse();
    char del_choice=mouse_click_for_dialoge_box(cor_x,cor_y);
    if(del_choice!='y'&&del_choice!='n')
        goto mouse_del;
        return del_choice;
char deleteuser_confirm()
    cleardevice();
    setfillstyle(SOLID_FILL,7);
   bar(200,130,410,280);
    setfillstyle(SOLID_FILL,4);
   bar(230,230,280,260);
   bar(330,230,380,260);
    setcolor(0);
    settextstyle(0,0,1);
    outtextxy(255,150, "Are You Sure ");
    outtextxy(225,190,"to REMOVE the user ?");
   outtextxy(245,240,"YES");
   outtextxy(350,240,"NO");
mouse_deluser:
   mouse();
    char deluser_choice=mouse_click_for_dialoge_box(cor_x,cor_y);
    if(deluser_choice!='y'&&deluser_choice!='n')
        goto mouse_deluser;
    else
        settextstyle(0,0,1);
    setcolor(15);
   return deluser_choice;
char exit_confirm()
    cleardevice();
    setfillstyle(SOLID_FILL,7);
   bar(200,130,410,280);
    setfillstyle(SOLID_FILL,4);
   bar(230,230,280,260);
   bar(330,230,380,260);
   setcolor(0);
    settextstyle(0,0,1);
    outtextxy(255,150, "Are You Sure ");
   outtextxy(225,190,"you want to EXIT
                                          ?");
   outtextxy(245,240,"YES");
   outtextxy(350,240,"NO");
mouse_exit:
   mouse();
    char exit_choice=mouse_click_for_dialoge_box(cor_x,cor_y);
    if(exit_choice!='y'&&exit_choice!='n')
        goto mouse_exit;
    else
        return exit_choice;
void logo(int x,int y,int xrad1,int diff)
```

```
setlinestyle(SOLID_LINE,1,0);
    int xrad2,xrad3,xrad4,xrad5;
    xrad2=xrad1+(3*diff);
    xrad3=xrad2+(4*diff);
    xrad4=xrad3+(5*diff);
    xrad5=xrad4+(6*diff);
    setcolor(0);
    setfillstyle(SOLID_FILL, 0);
    sector(x,y, 0, 90, xrad5, xrad5);
    setfillstyle(SOLID_FILL, 6);
    sector(x,y, 0, 90, xrad4, xrad4);
    setfillstyle(SOLID_FILL, 0);
    sector(x,y, 0, 90, xrad3, xrad3);
    setfillstyle(SOLID_FILL, 6);
    sector(x,y, 0, 90, xrad2, xrad2);
    setfillstyle(SOLID_FILL, 0);
    sector(x,y, 0, 90, xrad1, xrad1);
    setfillstyle(SOLID_FILL, 15);
    sector(x, y, 90, 180, xrad5, xrad5);
    setfillstyle(SOLID_FILL, 0);
    sector(x, y, 90, 180, xrad4, xrad4);
    setfillstyle(SOLID_FILL, 6);
    sector(x, y, 90, 180, xrad3, xrad3);
    setfillstyle(SOLID_FILL, 0);
    sector(x, y, 90, 180, xrad2, xrad2);
    setfillstyle(SOLID_FILL, 0);
    sector(x, y, 90, 180, xrad1, xrad1);
    setfillstyle(SOLID_FILL, 0);
    sector(x, y, 180, 270, xrad5, xrad5);
    setfillstyle(SOLID_FILL, 6);
    sector(x, y, 180, 270, xrad4, xrad4);
    setfillstyle(SOLID_FILL, 0);
    sector(x, y, 180, 270, xrad3, xrad3);
    setfillstyle(SOLID_FILL, 6);
    sector(x, y, 180, 270, xrad2, xrad2);
    setfillstyle(SOLID_FILL, 0);
    sector(x, y, 180, 270, xrad1, xrad1);
    setfillstyle(SOLID_FILL, 15);
    sector(x, y, 270, 360, xrad5, xrad5);
    setfillstyle(SOLID_FILL, 0);
    sector(x, y, 270, 360, xrad4, xrad4);
    setfillstyle(SOLID_FILL, 6);
    sector(x, y, 270, 360, xrad3, xrad3);
    setfillstyle(SOLID_FILL, 0);
    sector(x, y, 270, 360, xrad2, xrad2);
    setfillstyle(SOLID_FILL, 0);
    sector(x, y, 270, 360, xrad1, xrad1);
    setlinestyle(0,1,3);
void loading(void)
    clrscr();
    cleardevice();
    setlinestyle(SOLID_LINE,1,0);
    int x=320,y=200,xrad1=10,diff=5,xrad2,xrad3,xrad4,xrad5;
    xrad2=xrad1+(3*diff);
    xrad3=xrad2+(4*diff);
    xrad4=xrad3+(5*diff);
    xrad5=xrad4+(6*diff);
    delay(500);
    for(int i=0; i<3; ++i)</pre>
        cleardevice();
        setcolor(2);
        settextstyle(0,0,2);
        outtextxy(235,380,"LOADING");
        setcolor(0);
```

```
setfillstyle(SOLID_FILL, 0);
        sector(x,y, 0, 90, xrad5, xrad5);
        setfillstyle(SOLID_FILL, 6);
        sector(x,y, 0, 90, xrad4, xrad4);
        setfillstyle(SOLID_FILL, 0);
        sector(x,y, 0, 90, xrad3, xrad3);
        setfillstyle(SOLID_FILL, 6);
        sector(x,y, 0, 90, xrad2, xrad2);
        setfillstyle(SOLID_FILL, 0);
        sector(x,y, 0, 90, xrad1, xrad1);
        delay(500);
        setcolor(4);
        settextstyle(0,0,2);
        outtextxy(345,380,".");
        setcolor(0);
        setfillstyle(SOLID_FILL, 15);
        sector(x, y, 90, 180, xrad5, xrad5);
        setfillstyle(SOLID_FILL, 0);
        sector(x, y, 90, 180, xrad4, xrad4);
        setfillstyle(SOLID_FILL, 6);
        sector(x, y, 90, 180, xrad3, xrad3);
        setfillstyle(SOLID_FILL, 0);
        sector(x, y, 90, 180, xrad2, xrad2);
        setfillstyle(SOLID_FILL, 0);
        sector(x, y, 90, 180, xrad1, xrad1);
        delay(500);
        setcolor(4);
        settextstyle(0,0,2);
        outtextxy(355,380,".");
        setcolor(0);
        setfillstyle(SOLID_FILL, 0);
        sector(x, y, 180, 270, xrad5, xrad5);
        setfillstyle(SOLID_FILL, 6);
        sector(x, y, 180, 270, xrad4, xrad4);
        setfillstyle(SOLID_FILL, 0);
        sector(x, y, 180, 270, xrad3, xrad3);
        setfillstyle(SOLID_FILL, 6);
        sector(x, y, 180, 270, xrad2, xrad2);
        setfillstyle(SOLID_FILL, 0);
        sector(x, y, 180, 270, xrad1, xrad1);
        delay(500);
        setcolor(4);
        settextstyle(0,0,2);
        outtextxy(365,380,".");
        setcolor(0);
        setfillstyle(SOLID_FILL, 15);
        sector(x, y, 270, 360, xrad5, xrad5);
        setfillstyle(SOLID_FILL, 0);
        sector(x, y, 270, 360, xrad4, xrad4);
        setfillstyle(SOLID_FILL, 6);
        sector(x, y, 270, 360, xrad3, xrad3);
        setfillstyle(SOLID_FILL, 0);
        sector(x, y, 270, 360, xrad2, xrad2);
        setfillstyle(SOLID_FILL, 0);
        sector(x, y, 270, 360, xrad1, xrad1);
        delay(500);
    setlinestyle(0,1,3);
void exit_button()
    setfillstyle(SOLID_FILL,4);
   bar(600,0,639,20);
    setcolor(15);
   settextstyle(0,0,1);
   outtextxy(615,8,"X");
                 *************
```

```
int mouse_click_for_setting(int a,int b)
    if(a>=400&&a<639&&b>35&&b<65)
       return 1;
    else if(a>=400&&a<639&&b>85&&b<115)
       return 2;
    else if(a>=400&&a<639&&b>135&&b<165)
       return 3;
    else if(a>=400&&a<639&&b>185&&b<215)
       return 4;
    else if(a>=400&&a<639&&b>235&&b<265)
       return 5;
    else if(a>=400&&a<639&&b>285&&b<315)
       return 6;
    else if(a>=600&&a<639&&b>0&&b<20)
       return 7;
    else
       return 0;
int mouse_click_for_signin (int a,int b)
    if(a>=255 && a<390 && b>220&& b<241)
       return 1;
    else if(a>=250 && a<310 && b>300&& b<325)
       return 2;
    else if(a>=499 && a<639 && b>215&& b<235)
       return 3;
    else if(a>=499 && a<640 && b>265&& b<285)
       return 4;
    else if(a>=499 && a<639 && b>315&& b<335)
       return 5;
    else
       return 0;
char mouse_click_for_dialoge_box (int a,int b)
    if(a>=230 && a<280 && b>230&& b<260)
       return 'y';
    else if(a>=330 && a<380 && b>230&& b<260)
       return 'n';
    else
       return 'r';
int mouse_click_for_signup (int a,int b)
    if(a>=275 && a<520 && b>94&& b<112)
       return 1;
    else if(a>=600 && a<639 && b>0&& b<20)
       return 2;
    else if(a>=240 && a<400 && b>400&& b<430)
       return 3;
    else
       return 0;
int mouse_click_for_diplay(int a,int b)
    if(a>=40 && a<590 && b>=137&& b<=169)
       return 0;
    else if(a>=40 && a<590 && b>=185&& b<=217)
       return 1;
    else if(a>=40 && a<590 && b>=233&& b<=265)
       return 2;
    else if(a>=40 && a<590 && b>=281&& b<=313)
       return 3;
    else if(a>=39 && a<130 && b>=330&& b<=360)
       return 4;
    else if(a>=510 && a<590 && b>=330&& b<=360)
       return 5;
    else if(a>=600 && a<639 && b>0&& b<20)
       return 6;
    else
```

```
return -1;
int mouse_click_for_readbook(int a,int b)
    if(a>=600 && a<639 && b>0&& b<20)
       return 1;
    else
        return -1;
int mouse_click_for_add_book(int a,int b)
    if(a>=80 && a<505 && b>94&& b<112)
       return 1;
    else if(a>=600 && a<639 && b>0&& b<20)
       return 2;
    else if(a>=240 && a<440 && b>400&& b<470)
       return 3;
    else
        return 0;
int mouse_click_for_regular_home(int a,int b)
    bar(12,110,460,220);
    bar(12,230,460,340);
    bar(12,350,460,460);
    if(a>=12 && a<460 && b>110&& b<220)
        return 1;
    else if(a>=12 && a<460 && b>230&& b<340)
       return 2;
    else if(a>=12 && a<460 && b>350&& b<460)
       return 3;
    else if(a>=5 && a<85 && b>0&& b<80)
       return 4;
    else if(a>=95 && a<175 && b>0&& b<80)
       return 5;
    else if(a>=185 && a<275 && b>0&& b<80)
       return 6;
    else if(a>=285 && a<365 && b>0&& b<80)
       return 7;
    else if(a>=375 && a<455 && b>0&& b<80)
        return 8;
    else
        return 0;
int mouse_click_for_premium_home(int a,int b)
    if(a>=12 && a<460 && b>110&& b<160)
       return 1;
    else if(a>=12 && a<460 && b>165&& b<215)
       return 2;
    else if(a>=12 && a<460 && b>220&& b<270)
       return 3;
    else if(a>=12 && a<460 && b>310&& b<360)
       return 4;
    else if(a>=12 && a<460 && b>365&& b<415)
       return 5;
    else if(a>=12 && a<460 && b>420&& b<470)
       return 6;
    else if(a>=5 && a<71 && b>0&& b<80)
       return 7;
    else if(a>=76 && a<136 && b>0&& b<80)
       return 8;
    else if(a>=141 && a<201 && b>0&& b<80)
       return 9;
    else if(a>=206 && a<271 && b>0&& b<80)
       return 10;
    else if(a>=271 && a<336 && b>0&& b<80)
       return 11;
    else if(a>=336 && a<399 && b>0&& b<80)
       return 12;
    else if(a>=404 && a<455 && b>0&& b<80)
        return 13;
```

```
else
      return 0;
int mouse_click_for_admin_home(int a,int b)
   if(a>=9 && a<79 && b>0&& b<80)
      return 1;
   else if(a>=85 && a<155 && b>0&& b<80)
      return 2;
   else if(a>=161 && a<231 && b>0&& b<80)
      return 3;
   else if(a>=237 && a<307 && b>0&& b<80)
      return 4;
   else if(a>=313 && a<383 && b>0&& b<80)
      return 5;
   else if(a>=389 && a<459 && b>0&& b<80)
     return 6;
   else
      return 0;
        END OF FUNCTION TO CHECK MOUSE CORDINATES
*******************
               END OF FUNCTION DEFINATION
****************
                      END OF PROGRAM
```