SOURCE CODE-

Members-

Teghdeep Kapoor 18104050

Damyanti singh 18104032

Mayuri sahai 18104039

Tanya pandhi 18104064

#include<windows.h>               //for sleep() used in int password()

#include<stdio.h>

#include<conio.h>

#include <stdlib.h>

#include<string.h>                  //contains strcmp(),strcpy(),strlen(),etc

#include<ctype.h>                   //contains toupper(), tolower(),etc

#include<dos.h>                     //contains \_dos\_getdate

#include<time.h>

//#include<bios.h>

#define RETURNTIME 15

char catagories[][15]={"Computer","Electronics","Electrical","Civil","Mechnnical"};

void returnfunc(void);

void mainmenu(void);

void addbooks(void);

void deletebooks(void);

void editbooks(void);

void searchbooks(void);

void issuebooks(void);

void returnbooks(void);

void viewbooks(void);

void closeapplication(void);

int  getdata();

int  checkid(int);

int t(void);

//void show\_mouse(void);

void Password();

void issuerecord();

void loaderanim();

int rent(int Id);

//list of global files that can be acceed form anywhere in program

FILE \*fp,\*ft,\*fs;

COORD coord = {0, 0};

//list of global variable

int s;

char findbook;

char password[10]={"teghtanya"};

void gotoxy (int x, int y)

{

 coord.X = x; coord.Y = y; // X and Y coordinates

 SetConsoleCursorPosition(GetStdHandle(STD\_OUTPUT\_HANDLE), coord);

}

struct meroDate

{

 int mm,dd,yy;

};

struct books

{

 int B\_Id;

 char nameb[25];

 char Author[20];

 int quantity;

 float Price;

 int count;

 int rackno;

 char \*cat;

};

struct books a;

struct user

{

 int id;

 char name[25];

 struct books book;

 struct meroDate issued;

 struct meroDate duedate;

 struct meroDate returndate;

};

struct user u;

int main()

{

 // DATAMATE Heading....

 char datamate[25]="DATAMATE";

 int j,i,z,d;

 gotoxy(20,5);

 for(j=0;j<10;j++)

 {

  Sleep(50);

  printf("$");

 }

 for(j=0;j<9;j++)

 {

  Sleep(50);

  printf("%c",datamate[j]);

 }

 for(j=0;j<10;j++)

 {

  Sleep(50);

  printf("$");

 }

// Profile Accessing

 teghtanya:

 gotoxy(10,7);

 printf("\n\nYou want to access which profile?\n1.Librarnian\t2.Student\n");

 scanf("%d",&i);

 // Libranian Section

 if(i==1)

 {

  printf("Welcome to Libranian Section\n");

  Password();

 }

// Student Section

 else

 {

   system("cls");

   printf("Welcome to Student User\n\n\n\n");

   printf("Enter the option \n1.Search A record\n2.Exit");

   scanf("%d",&z);

 switch(z)

 {

   case 1:

       tegh:

       system("cls");

       gotoxy(25,4);

       printf("\*\*\*\*Search Books By Student Id\*\*\*\*");

       gotoxy(20,5);

       printf("Enter the Student id:");

       scanf("%d",&d);

       gotoxy(20,7);

       printf("Searching........");

       while(fread(&u,sizeof(u),1,fp)==1)

       {

         if([u.id](http://u.id/)==d)

         {

           Sleep(2);

           gotoxy(20,7);

           printf("The Book is available");

           gotoxy(20,8);

           printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

           gotoxy(20,9);

           printf("\xB2 ID:%d",u.book.B\_Id);gotoxy(47,9);

           printf("\xB2");

           gotoxy(20,10);

           printf("\xB2 Name:%s",[u.name](http://u.name/));

           gotoxy(47,10);

           printf("\xB2");

           gotoxy(20,11);

           printf("\xB2 Author:%s ",u.book.Author);gotoxy(47,11);printf("\xB2");

           gotoxy(20,12);

           printf("\xB2 Qantity:%d ",u.book.quantity);gotoxy(47,12);printf("\xB2"); gotoxy(47,11);printf("\xB2");

           gotoxy(20,13);

           printf("\xB2 Price:Rs.%.2f",u.book.Price);gotoxy(47,13);printf("\xB2");

           gotoxy(20,14);

           printf("\xB2 Rack No:%d ",u.book.rackno);gotoxy(47,14);printf("\xB2");

           gotoxy(20,15);

           printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

           findbook='t';

        }

   }

   if(findbook!='t')  //checks whether conditiion enters inside loop or not

   {

      gotoxy(20,8);

      printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

      gotoxy(20,9);printf("\xB2");  gotoxy(38,9);printf("\xB2");

      gotoxy(20,10);

      printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

      gotoxy(22,9);printf("\aNo Record Found");

   }

   gotoxy(20,17);

   printf("Try another search?(Y/N)");

   if(getch()=='y')

     goto tegh;

   else

     printf("Want to go to Login Screen ??");

     if(getch()=='Y'|| getch() =='y')

     {

         system("cls");

         goto teghtanya;

     }

     else

        goto tanya;

     break;

   case 2:

     tanya:

     system("cls");

     gotoxy(16,3);

     printf("\tLibrary Management System");

     gotoxy(10,4);

     printf("\tJaypee Institute Of Information Technology");

     gotoxy(20,5);

     printf("\tBatch B12\n");

     printf("Team:\n1.Teghdeep Kapoor:18104050\n2.Tanya Pandhi:18104064\n3.Damyanti Singh:18104032\n4.Mayuri Sahai:18104039");

     gotoxy(16,12);

     printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

     gotoxy(16,14);

     printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

     gotoxy(16,15);

     printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

     gotoxy(16,17);

     printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

     gotoxy(10,21);

     printf("Exiting in 3 second...........>");

     //flushall();

     Sleep(10000);

     exit(0);

 /\* case 3:

  {

      int renty;

      int id;

      printf("enter your id\n");

      scanf("%d",&id);

      renty=rent(id);

     printf("\nYour rent is %d",renty);

  }\*/

 }

}

 getch();

 return 0;

}

// For Password Option

void Password(void)

{

 system("cls");

 char d[25]="Password Protected";

 char ch,pass[10];

 int i=0,j;

 //textbackground(WHITE);

 //textcolor(RED);

 gotoxy(10,4);

 for(j=0;j<10;j++)

 {

  Sleep(50);

  printf(":)");

 }

 for(j=0;j<20;j++)

 {

  Sleep(50);

  printf("%c",d[j]);

 }

 for(j=0;j<10;j++)

 {

  Sleep(50);

  printf("(:");

 }

 gotoxy(10,10);

 gotoxy(15,7);

 printf("Enter Password:");

 while(ch!=13)

 {

 ch=getch();

 if(ch!=13 && ch!=8){

 putch('\*');

 pass[i] = ch;

 i++;

 }

 }

 pass[i] = '\0';

 if(strcmp(pass,password)==0)

 {

  gotoxy(15,9);

  //textcolor(BLINK);

  printf("Password match");

  gotoxy(17,10);

  printf("Press any key to countinue.....");

  getch();

  mainmenu();

 }

 else

 {

  gotoxy(15,16);

  printf("\aWarning!! Incorrect Password");

  getch();

  Password();

 }

 }

 void mainmenu()

 {

  //loaderanim();

  system("cls");

  //    textbackground(13);

  int i;

  gotoxy(20,3);

  printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2 MAIN MENU \xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

  //    show\_mouse();

  gotoxy(20,5);

  printf("\xDB\xDB\xDB\xDB\xB2 1. Add Books   ");

  gotoxy(20,7);

  printf("\xDB\xDB\xDB\xDB\xB2 2. Delete books");

  gotoxy(20,9);

  printf("\xDB\xDB\xDB\xDB\xB2 3. Issue Books");

  gotoxy(20,11);

  printf("\xDB\xDB\xDB\xDB\xB2 4. Return Books");

  gotoxy(20,13);

  printf("\xDB\xDB\xDB\xDB\xB2 5. View Book list");

  gotoxy(20,15);

  printf("\xDB\xDB\xDB\xDB\xB2 6. Edit Book's Record");

  gotoxy(20,17);

  printf("\xDB\xDB\xDB\xDB\xB2 7. Search Book");

  gotoxy(20,19);

  printf("\xDB\xDB\xDB\xDB\xB2 8. Close Application");

  gotoxy(20,21);

  printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

  gotoxy(20,22);

  t();

  gotoxy(20,23);

  printf("Enter your choice:");

  switch(getch())

  {

   case '1':

    addbooks();

    break;

   case '2':

    deletebooks();

    break;

   case '3':

    issuebooks();

    break;

   case '4':

    returnbooks();

    break;

   case '5':

    viewbooks();

    break;

   case '6':

    editbooks();

    break;

   case '7':

    searchbooks();

    break;

   case '8':

   {

     system("cls");

     gotoxy(16,3);

     printf("\tLibrary Management System");

     gotoxy(10,4);

     printf("\tJaypee Institute Of Information Technology");

     gotoxy(20,5);

     printf("\tBatch B12\n");

     printf("Team:\n1.Teghdeep Kapoor:18104050\n2.Tanya Pandhi:18104064\n3.Damyanti Singh:18104032\n4.Mayuri Sahai:18104039");

     gotoxy(16,12);

     printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

     gotoxy(16,14);

     printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

     gotoxy(16,15);

     printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

     gotoxy(16,17);

     printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

     gotoxy(10,21);

     printf("Exiting in 3 second...........>");

     //flushall();

     Sleep(3000);

     getch();

     exit(0);

   }

   default:

   {

    gotoxy(10,23);

    printf("\aWrong Entry!!Please re-entered correct option");

    if(getch())

    mainmenu();

   }

  }

 }

 int t(void) //for time

 {

 time\_t t;

 time(&t);

 printf("Date and time:%s\n",ctime(&t));

 return 0 ;

 }

 void time\_try()

 {

     int hours,min,sec,day,month,year;

     time\_t now;

     time(&now);

     printf("Today is:%s",ctime(&now));

     struct tm \*local=localtime(&now);

     hours=local->tm\_hour;

     min=local->tm\_min;

     sec=local->tm\_sec;

     day=local->tm\_mday;

     month=local->tm\_mon +1;

     year=local->tm\_year +1900;

     if(hours < 12)

       printf("%d:%d:%d",hours,min,sec);

     else

       printf("%d:%d:%d",hours-12,min,sec);

     printf("%02d/%02d/%d",day,month,year);

 }

 void addbooks(void)    //funtion that add books

 {

 system("cls");

 int i;

 gotoxy(20,5);

 printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2SELECT CATEGORIES\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

 gotoxy(20,7);

 printf("\xDB\xDB\xDB\xDB\xB2 1. Computer");

 gotoxy(20,9);

 printf("\xDB\xDB\xDB\xDB\xB2 2. Electronics");

 gotoxy(20,11);

 printf("\xDB\xDB\xDB\xDB\xB2 3. Electrical");

 gotoxy(20,13);

 printf("\xDB\xDB\xDB\xDB\xB2 4. Civil");

 gotoxy(20,15);

 printf("\xDB\xDB\xDB\xDB\xB2 5. Mechanical");

 gotoxy(20,17);

 printf("\xDB\xDB\xDB\xDB\xB2 6. Back to main menu");

 gotoxy(20,19);

 printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

 gotoxy(20,20);

 printf("Enter your choice:");

 scanf("%d",&s);

 if(s==6)

  mainmenu();

 system("cls");

 fp=fopen(" lib.dat","ab+");

 if(getdata()==1)

 {

[u.book.cat](http://u.book.cat/)=catagories[s-1];

  fseek(fp,0,SEEK\_END);

  fwrite(&u,sizeof(u),1,fp);

  fclose(fp);

  gotoxy(21,14);

  printf("The record is sucessfully saved");

  gotoxy(21,15);

  printf("Save any more?(Y / N):");

  if(getch()=='n'|| getch()=='N')

   mainmenu();

  else

   system("cls");

   addbooks();

  }

 }

void deletebooks()    //function that delete items from file fp

{

 system("cls");

 int d;

 char another='y';

 while(another=='y')  //infinite loop

 {

  system("cls");

  gotoxy(10,5);

  printf("Enter the Book ID to  delete:");

  scanf("%d",&d);

  fp=fopen(" lib.dat","rb+");

  rewind(fp);          //to set the file pointer at beginning

  while(fread(&u,sizeof(u),1,fp)==1) //changed

  {

   if([u.id](http://u.id/)==d)

   {

     gotoxy(10,7);

     printf("The book record is available");

     gotoxy(10,8);

     printf("Book name is %s",u.book.nameb);

     gotoxy(10,9);

     printf("Rack No. is %d",u.book.rackno);

     findbook='t';

   }

 }

 if(findbook!='t')

 {

  gotoxy(10,10);

  printf("No record is found modify the search");

  if(getch())

   mainmenu();

 }

 if(findbook=='t' )

 {

  gotoxy(10,9);

  printf("Do you want to delete it?(Y/N):");

  if(getch()=='y')

  {

   ft=fopen("test.dat","wb+");  //temporary file for delete

   rewind(fp);

   while(fread(&u,sizeof(u),1,fp)==1)

   {

    if([u.id](http://u.id/)!=d)

    {

     fseek(ft,0,SEEK\_CUR);

     fwrite(&u,sizeof(u),1,ft); //write all in tempory file except that

    }                              //we want to delete

   }

   fclose(ft);

   fclose(fp);

   remove(" lib.dat");

   rename("test.dat"," lib.dat"); //copy all item from temporary file to fp except that

   fp=fopen(" lib.dat","rb+");    //we want to delete

   if(findbook=='t')

   {

     gotoxy(10,10);

     printf("The record is sucessfully deleted");

     gotoxy(10,11);

     printf("Delete another record?(Y/N)");

   }

  }

  else

  mainmenu();

  fflush(stdin);

  another=getch();

  }

 }

 gotoxy(10,15);

 mainmenu();

 }

void searchbooks()

{

 system("cls");

 int d;

 printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Search Books\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

 gotoxy(20,10);

 printf("\xDB\xDB\xDB\xB2 1. Search By ID");

 gotoxy(20,14);

 printf("\xDB\xDB\xDB\xB2 2. Search By Name");

 gotoxy( 15,20);

 printf("Enter Your Choice");

 fp=fopen(" lib.dat","rb+"); //open file for reading propose

 rewind(fp);   //move pointer at the begining of file

 switch(getch())

 {

  case '1':

  {

   system("cls");

   gotoxy(25,4);

   printf("\*\*\*\*Search Books By Id\*\*\*\*");

   gotoxy(20,5);

   printf("Enter the book id:");

   scanf("%d",&d);

   gotoxy(20,7);

   printf("Searching........");

   while(fread(&u,sizeof(u),1,fp)==1)

   {

    if([u.id](http://u.id/)==d)

    {

     Sleep(2);

     gotoxy(20,7);

     printf("The Book is available");

     gotoxy(20,8);

     printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

     gotoxy(20,9);

     printf("\xB2 ID:%d",[u.id](http://u.id/));gotoxy(47,9);

     printf("\xB2");

     gotoxy(20,10);

     printf("\xB2 Name:%s",u.book.nameb);

     gotoxy(47,10);

     printf("\xB2");

     gotoxy(20,11);

     printf("\xB2 Author:%s ",u.book.Author);gotoxy(47,11);printf("\xB2");

     gotoxy(20,12);

     printf("\xB2 Qantity:%d ",u.book.quantity);gotoxy(47,12);printf("\xB2"); gotoxy(47,11);printf("\xB2");

     gotoxy(20,13);

     printf("\xB2 Price:Rs.%.2f",u.book.Price);gotoxy(47,13);printf("\xB2");

     gotoxy(20,14);

     printf("\xB2 Rack No:%d ",u.book.rackno);gotoxy(47,14);printf("\xB2");

     gotoxy(20,15);

     printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

     findbook='t';

   }

  }

  if(findbook!='t')  //checks whether conditiion enters inside loop or not

  {

   gotoxy(20,8);

   printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

   gotoxy(20,9);printf("\xB2");  gotoxy(38,9);printf("\xB2");

   gotoxy(20,10);

   printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

   gotoxy(22,9);printf("\aNo Record Found");

  }

  gotoxy(20,17);

  printf("Try another search?(Y/N)");

  if(getch()=='y')

   searchbooks();

  else

   mainmenu();

   break;

 }

 case '2':

 {

   char s[15];

   system("cls");

   gotoxy(25,4);

   printf("\*\*\*\*Search Books By Name\*\*\*\*");

   gotoxy(20,5);

   printf("Enter Book Name:");

   scanf("%s",s);

   int d=0;

   while(fread(&u,sizeof(u),1,fp)==1)

   {

    if(strcmp(u.book.nameb,(s))==0) //checks whether [a.name](http://a.name/) is equal to s or not

    {

     gotoxy(20,7);

     printf("The Book is available");

     gotoxy(20,8);

     printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

     gotoxy(20,9);

     printf("\xB2 ID:%d",[u.id](http://u.id/));gotoxy(47,9);printf("\xB2");

     gotoxy(20,10);

     printf("\xB2 Name:%s",u.book.nameb);gotoxy(47,10);printf("\xB2");

     gotoxy(20,11);

     printf("\xB2 Author:%s",u.book.Author);gotoxy(47,11);printf("\xB2");

     gotoxy(20,12);

     printf("\xB2 Qantity:%d",u.book.quantity);gotoxy(47,12);printf("\xB2");

     gotoxy(20,13);

     printf("\xB2 Price:Rs.%.2f",u.book.Price);gotoxy(47,13);printf("\xB2");

     gotoxy(20,14);

     printf("\xB2 Rack No:%d ",u.book.rackno);gotoxy(47,14);printf("\xB2");

     gotoxy(20,15);

     printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

     d++;

    }

   }

   if(d==0)

   {

    gotoxy(20,8);

    printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

    gotoxy(20,9);printf("\xB2");  gotoxy(38,9);printf("\xB2");

    gotoxy(20,10);

    printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

    gotoxy(22,9);printf("\aNo Record Found");

   }

   gotoxy(20,17);

   printf("Try another search?(Y/N)");

   if(getch()=='y')

    searchbooks();

   else

    mainmenu();

   break;

  }

  default :

   getch();

   searchbooks();

  }

  fclose(fp);

 }

void issuebooks(void)  //function that issue books from library

{

 int t;

 system("cls");

 printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ISSUE SECTION\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

 gotoxy(10,5);

 printf("\xDB\xDB\xDB\xDb\xB2 1. Issue a Book");

 gotoxy(10,7);

 printf("\xDB\xDB\xDB\xDb\xB2 2. View Issued Book");

 gotoxy(10,9);

 printf("\xDB\xDB\xDB\xDb\xB2 3. Search Issued Book");

 gotoxy(10,11);

 printf("Enter a Choice:");

 switch(getch())

 {

  case '1':  //issue book

  {

   system("cls");

   int c=0;

   char another='y';

   while(another=='y')

   {

    system("cls");

    gotoxy(15,4);

    printf("\*\*\*Issue Book section\*\*\*");

    int i=0,j;

system("cls");

gotoxy(1,1);

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Book List\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

gotoxy(2,2);

printf(" CATEGORY     ID    BOOK NAME     AUTHOR       QTY     PRICE     RackNo ");

j=4;

fp=fopen(" lib.dat","rb");

while(fread(&u,sizeof(u),1,fp)==1)

{

gotoxy(3,j);

printf("%s",[u.book.cat](http://u.book.cat/));

gotoxy(16,j);

printf("%d",[u.id](http://u.id/));

gotoxy(22,j);

printf("%s",u.book.nameb);

gotoxy(36,j);

printf("%s",u.book.Author);

gotoxy(50,j);

printf("%d",u.book.quantity);

gotoxy(57,j);

printf("%.2f",u.book.Price);

gotoxy(69,j);

printf("%d",u.book.rackno);

printf("\n\n");

j++;

i=i+u.book.quantity;

}

gotoxy(3,25);

 printf("Enter the Book Id:");

fclose(fp);

gotoxy(35,25);

    scanf("%d",&t);

    fp=fopen(" lib.dat","rb");

    fs=fopen("Issue.dat","ab+");

    if(checkid(t)==0) //issues those which are present in library

    {

     gotoxy(10,28);

     printf("The book record is available");

     gotoxy(10,29);

     printf("There are %d unissued books in library ",u.book.quantity);

     gotoxy(10,30);

     printf("The name of book is %s",u.book.nameb);

     gotoxy(10,31);

     printf("Enter student name:");

     scanf("%s",[u.name](http://u.name/));

     //struct dosdate\_t d; //for current date

     //\_dos\_getdate(&d);

     //a.issued.dd=d.day;

//[a.issued.mm](http://a.issued.mm/)=d.month;

//a.issued.yy=d.year;

gotoxy(10,32);

printf("Enter the date on which the book was issued !!");

scanf("%d\t%d\t%d",&u.issued.dd,&[u.issued.mm](http://u.issued.mm/),&u.issued.yy);

//printf("Issued date=%d-%d-%d",u.issued.dd,[u.issued.mm](http://u.issued.mm/),u.issued.yy);

gotoxy(10,33);

printf("The BOOK of ID %d is issued",[u.id](http://u.id/));

u.duedate.dd=u.issued.dd+RETURNTIME;   //for return date

[u.duedate.mm](http://u.duedate.mm/)=[u.issued.mm](http://u.issued.mm/);

u.duedate.yy=u.issued.yy;

if(u.duedate.dd>30)

{

[u.duedate.mm](http://u.duedate.mm/)+=u.duedate.dd/30;

u.duedate.dd-=30;

}

if([u.duedate.mm](http://u.duedate.mm/)>12)

{

u.duedate.yy+=[u.duedate.mm/12](http://u.duedate.mm/12);

u.duedate.mm-=12;

}

gotoxy(10,35);

printf("To be return:%d-%d-%d",u.duedate.dd,[u.duedate.mm](http://u.duedate.mm/),u.duedate.yy);

fseek(fs,sizeof(u),SEEK\_END);

fwrite(&u,sizeof(u),1,fs);

fclose(fs);

c=1;

}

if(c==0)

{

gotoxy(10,36);

printf("No record found");

}

gotoxy(10,38);

printf("Issue any more(Y/N):");

fflush(stdin);

another=getch();

fclose(fp);

}

break;

}

case '2':  //show issued book list

{

system("cls");

int j=4;

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Issued book list\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

gotoxy(2,2);

printf("STUDENT NAME    CATEGORY    ID    BOOK NAME    ISSUED DATE    RETURN DATE");

fs=fopen("Issue.dat","rb");

while(fread(&u,sizeof(u),1,fs)==1)

{

gotoxy(2,j);

printf("%s",[u.name](http://u.name/));

gotoxy(18,j);

printf("%s",[u.book.cat](http://u.book.cat/));

gotoxy(30,j);

printf("%d",[u.id](http://u.id/));

gotoxy(36,j);

printf("%s",u.book.nameb);

gotoxy(51,j);

printf("%d-%d-%d",u.issued.dd,[u.issued.mm](http://u.issued.mm/),u.issued.yy );

gotoxy(65,j);

printf("%d-%d-%d",u.duedate.dd,[u.duedate.mm](http://u.duedate.mm/),u.duedate.yy);

//struct dosdate\_t d;

//\_dos\_getdate(&d);

gotoxy(50,25);

//            printf("Current date=%d-%d-%d",d.day,d.month,d.year);

j++;

}

fclose(fs);

gotoxy(1,25);

returnfunc();

}

break;

case '3':   //search issued books by id

{

system("cls");

gotoxy(10,6);

printf("Enter Book ID:");

int p,c=0;

char another='y';

while(another=='y')

{

scanf("%d",&p);

fs=fopen("Issue.dat","rb");

while(fread(&u,sizeof(u),1,fs)==1)

{

if([u.id](http://u.id/)==p)

{

issuerecord();

gotoxy(10,12);

printf("Press any key.......");

getch();

issuerecord();

c=1;

}

}

fflush(stdin);

fclose(fs);

if(c==0)

{

gotoxy(10,8);

printf("No Record Found");

}

gotoxy(10,13);

printf("Try Another Search?(Y/N)");

another=getch();

}

}

break;

default:

gotoxy(10,18);

printf("\aWrong Entry!!");

getch();

issuebooks();

break;

}

gotoxy(1,30);

returnfunc();

}

void returnbooks()

{

system("cls");

int d,tanyap;

FILE \*fg;  //declaration of temporary file for delete

char another='y';

while(another=='y')  //infinite loop

 {

  system("cls");

  gotoxy(10,5);

  printf("Enter the Book ID to  return:");

  scanf("%d",&d);

  fg=fopen("Issue.dat","rb+");

  rewind(fg);          //to set the file pointer at beginning

  while(fread(&u,sizeof(u),1,fg)==1) //changed

  {

   if([u.id](http://u.id/)==d)

   {

     gotoxy(10,7);

     printf("The book record is available");

     issuerecord();

     findbook='t';

   }

 }

 if(findbook!='t')

 {

  gotoxy(10,10);

  printf("No record is found modify the search");

  if(getch())

   mainmenu();

 }

 if(findbook=='t' )

 {

gotoxy(10,12);

tanyap=rent(d);

printf("The rent is %d",tanyap);

gotoxy(10,14);

  printf("Do you want to return it?(Y/N):");

  if(getch()=='y')

  {

   ft=fopen("test.dat","wb+");  //temporary file for delete

   rewind(fg);

   while(fread(&u,sizeof(u),1,fg)==1)

   {

    if([u.id](http://u.id/)!=d)

    {

     fseek(ft,0,SEEK\_CUR);

     fwrite(&u,sizeof(u),1,ft); //write all in tempory file except that

    }                              //we want to delete

   }

   fclose(ft);

   fclose(fg);

   remove("Issue.dat");

   rename("test.dat"," lib.dat"); //copy all item from temporary file to fp except that

   fp=fopen("Issue.dat","rb+");    //we want to delete

   if(findbook=='t')

   {

     gotoxy(10,15);

     printf("The record is sucessfully returned");

     gotoxy(10,16);

     printf("return another record?(Y/N)");

   }

  }

  else

  mainmenu();

  fflush(stdin);

  another=getch();

  }

 }

 gotoxy(10,17);

 mainmenu();

/\*while(another=='y')

{

gotoxy(10,5);

printf("Enter book id to return:");

scanf("%d",&b);

fs=fopen("Issue.dat","rb+");

while(fread(&u,sizeof(u),1,fs)==1)

{

if([u.id](http://u.id/)==b)

{

issuerecord();

findbook='t';

}

if(findbook=='t')

{

gotoxy(10,12);

tanyap=rent(b);

printf("The rent is %d",tanyap);

printf("\nDo You Want to Return it?(Y/N)");

if(getch()=='y')

{

fg=fopen("record.dat","wb+");

rewind(fs);

while(fread(&u,sizeof(u),1,fs)==1)

{

if([u.id](http://u.id/)!=b)

{

fseek(fg,0,SEEK\_END); //changed

fwrite(&u,sizeof(u),1,fg);

}

}

fclose(fs);

fclose(fg);

remove("Issue.dat");

rename("record.dat","Issue.dat");

gotoxy(10,14);

fs=fopen("Issue.dat","rb+");

       system("cls");

     gotoxy(10,10);

     printf("The record is sucessfully returned");

}

}

if(findbook!='t')

{

gotoxy(10,15);

printf("No Record Found");

}

}

 gotoxy(10,11);

     printf("Return another record?(Y/N)");

another=getch();

}\*/

}

void viewbooks(void)  //show the list of book persists in library

{

int i=0,j;

system("cls");

gotoxy(1,1);

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Book List\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

gotoxy(2,2);

printf(" CATEGORY     ID    BOOK NAME     AUTHOR       QTY     PRICE     RackNo ");

j=4;

fp=fopen(" lib.dat","rb");

while(fread(&u,sizeof(u),1,fp)==1)

{

gotoxy(3,j);

printf("%s",[u.book.cat](http://u.book.cat/));

gotoxy(16,j);

printf("%d",[u.id](http://u.id/));

gotoxy(22,j);

printf("%s",u.book.nameb);

gotoxy(36,j);

printf("%s",u.book.Author);

gotoxy(50,j);

printf("%d",u.book.quantity);

gotoxy(57,j);

printf("%.2f",u.book.Price);

gotoxy(69,j);

printf("%d",u.book.rackno);

printf("\n\n");

j++;

i=i+u.book.quantity;

}

gotoxy(3,25);

printf("Total Books =%d",i);

fclose(fp);

gotoxy(35,25);

returnfunc();

}

void editbooks(void)  //edit information about book

{

system("cls");

int c=0;

int d,e;

gotoxy(20,4);

printf("\*\*\*\*Edit Books Section\*\*\*\*");

char another='y';

while(another=='y')

{

system("cls");

gotoxy(15,6);

printf("Enter Book Id to be edited:");

scanf("%d",&d);

fp=fopen(" lib.dat","rb+");

while(fread(&u,sizeof(u),1,fp)==1)

{

if(checkid(d)==0)

{

gotoxy(15,7);

printf("The book is availble");

gotoxy(15,8);

printf("The Book ID:%d",[u.id](http://u.id/));

gotoxy(15,9);

printf("Enter new name:");scanf("%s",u.book.nameb);

gotoxy(15,10);

printf("Enter new Author:");scanf("%s",u.book.Author);

gotoxy(15,11);

printf("Enter new quantity:");scanf("%d",&u.book.quantity);

gotoxy(15,12);

printf("Enter new price:");scanf("%f",&u.book.Price);

gotoxy(15,13);

printf("Enter new rackno:");scanf("%d",&u.book.rackno);

gotoxy(15,14);

printf("The record is modified");

fseek(fp,ftell(fp)-sizeof(u),0);

fwrite(&u,sizeof(u),1,fp);

fclose(fp);

c=1;

}

if(c==0)

{

gotoxy(15,9);

printf("No record found");

}

}

gotoxy(15,16);

printf("Modify another Record?(Y/N)");

fflush(stdin);

another=getch() ;

}

returnfunc();

}

void returnfunc(void)

{

{

printf(" Press ENTER to return to main menu");

}

a:

if(getch()==13) //allow only use of enter

mainmenu();

else

goto a;

}

int getdata()

{

int t;

gotoxy(20,3);printf("Enter the Information Below");

gotoxy(20,4);printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

gotoxy(20,5);

printf("\xB2");gotoxy(46,5);printf("\xB2");

gotoxy(20,6);

printf("\xB2");gotoxy(46,6);printf("\xB2");

gotoxy(20,7);

printf("\xB2");gotoxy(46,7);printf("\xB2");

gotoxy(20,8);

printf("\xB2");gotoxy(46,8);printf("\xB2");

gotoxy(20,9);

printf("\xB2");gotoxy(46,9);printf("\xB2");

gotoxy(20,10);

printf("\xB2");gotoxy(46,10);printf("\xB2");

gotoxy(20,11);

printf("\xB2");gotoxy(46,11);printf("\xB2");

gotoxy(20,12);

printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2");

gotoxy(21,5);

printf("Category:");

gotoxy(31,5);

printf("%s",catagories[s-1]);

gotoxy(21,6);

printf("Book ID:\t");

gotoxy(30,6);

scanf("%d",&t);

if(checkid(t) == 0)

{

gotoxy(21,13);

printf("\aThe book id already exists\a");

getch();

mainmenu();

return 0;

}

[u.id](http://u.id/)=t;

gotoxy(21,7);

printf("Book Name:");gotoxy(33,7);

scanf("%s",u.book.nameb);

gotoxy(21,8);

printf("Author:");gotoxy(30,8);

scanf("%s",u.book.Author);

gotoxy(21,9);

printf("Quantity:");gotoxy(31,9);

scanf("%d",&u.book.quantity);

gotoxy(21,10);

printf("Price:");gotoxy(28,10);

scanf("%f",&u.book.Price);

gotoxy(21,11);

printf("Rack No:");gotoxy(30,11);

scanf("%d",&u.book.rackno);

return 1;

}

int checkid(int t)  //check whether the book is exist in library or not

{

rewind(fp);

while(fread(&u,sizeof(u),1,fp)==1)

if([u.id](http://u.id/)==t)

return 0;  //returns 0 if book exits

return 1; //return 1 if it not

}

void issuerecord()  //display issued book's information

{

system("cls");

gotoxy(10,8);

printf("The Book has taken by Mr. %s",[u.name](http://u.name/));

gotoxy(10,9);

printf("Issued Date:%d-%d-%d",u.issued.dd,[u.issued.mm](http://u.issued.mm/),u.issued.yy);

gotoxy(10,10);

printf("Returning Date:%d-%d-%d",u.duedate.dd,[u.duedate.mm](http://u.duedate.mm/),u.duedate.yy);

}

/\*void loaderanim()

{

int loader;

system("cls");

gotoxy(20,10);

printf("LOADING........");

printf("\n\n");

gotoxy(22,11);

for(loader=1;loader<20;loader++)

{

Sleep(100);printf("%c",219);}

}\*/

//End of program

int rent(int Id)

{

    int d1,d2,m1,m2,y1,y2,calcrent,d,m;

    FILE \*fo;

    fo=fopen("Issue.dat","rb+");

    printf("Enter the date of returning");

    scanf("\n%d\t%d\t%d",&d2,&m2,&y2);

    while(fread(&u,sizeof(u),1,fo)==1)

    {

       if([u.id](http://u.id/)==Id)

       {

           d1=u.duedate.dd;

           m1=[u.duedate.mm](http://u.duedate.mm/);

           y1=u.duedate.yy;

           if(d1>d2)

           {

               d=d1-d2;

               m=m2-m1-1;

               calcrent=d\*10 + m\*300;

               return calcrent;

           }

           else if(d2>d1)

           {

               d=d2-d1;

               m=m2-m1;

               calcrent = d\*10 + m\*300;

               return calcrent;

           }

           else

           {

               m=m2-m1;

               calcrent= m\*300;

               return calcrent;

           }

       }

    }

    fclose(fo);

}