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Online C Compiler.

Code, Compile, Run and Debug C program online.

Write your code in this editor and press "Run" button to compile and execute it.

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#include <string.h>

#include <stdio.h>

#include <stdlib.h>

struct user

{

char name[30];

int userid;

int password;

int booksadded;

int booksrented;

struct user \*next;

};

typedef struct user users;

struct dept

{

int sem;

int tc\_books[8];

int is\_books[8];

};

struct dept a[3];

void login ();

void reg ();

void display (int, int);

void available ();

void updatebooks ();

int i = 990, flag = 0, more = 0;

int logpwd, c, department, bookch, moresem;

users \*head = NULL;

int

main ()

{

printf ("WELCOME TO THE BOOK SHARING FORUM OF RIT \n");

while (c != 99)

{

printf ("\n 1) LOGIN \n 2) REGISTER \n 3) BOOKS AVAILABLE \n 99) EXIT\n");

scanf ("%d", &c);

switch (c)

{

case 1:

login ();

break;

case 2:

reg ();

break;

case 3:

available ();

break;

case 99:

exit (0);

default: printf("\nWRONG CHOICE \n");

}

}

return 0;

}

void

login ()

{

users \*temp;

temp = head;

int logid;

int pwd, semester;

printf ("LOGIN PAGE \n PLEASE ENTER YOUR USER ID \n");

scanf ("%d", &logid);

printf (" \n ENTER YOUR PASSWORD \n");

scanf ("%d", &pwd);

while (logid != temp->userid && temp != NULL)

temp = temp->next;

if (temp != NULL)

{

if (pwd == temp->password)

{

printf ("LOGIN SUCCESSFUL \n");

flag = 1;

}

else

printf ("WRONG PASSWORD \n");

}

else

printf ("LOGIN FAILED \n");

if (flag == 1)

{

do

{

printf

("1) TO ADD BOOKS \n 2) TO RENT BOOKS \n 3) YOUR PROFILE \n 4) EXIT \n");

scanf ("%d", &c);

switch (c)

{

case 1:

do

{

printf

("ENTER THE SEMESTER IN WHICH THE SUBJECT IS TAUGHT \n");

scanf ("%d", &semester);

printf ("ENTER THE DEPARTMENT \n 1) TELECOM \t 2) ISE \n");

scanf ("%d", &department);

display (semester, department);

do{

printf ("SELECT WHICH BOOK YOU WANT TO ADD \n");

scanf ("%d", &bookch);

if (department == 1)

a[semester - 3].tc\_books[bookch - 1]++;

else

a[semester - 3].is\_books[bookch - 1]++;

temp->booksadded++;

printf ("\n THANK YOU FOR DONATING \n");

printf ("DO YOU WANT TO ADD MORE BOOKS from the same semester department?\n 1) YES \t 2) NO \n");

scanf("%d", &moresem);

}

while (moresem == 1);

printf ("DO YOU WANT TO ADD MORE BOOKS from other semester or department? \n 1) YES \t 2) NO \n");

scanf ("%d", &more);

}

while (more == 1);

break;

case 2:

available ();

do

{

printf ("ENTER THE DEPARTMENT \n 1) TELECOM \t 2) ISE \n");

scanf ("%d", &department);

printf

("ENTER THE SEMESTER AND CORRESPONDING SUBJECT SERIAL NUMBER \n");

scanf ("%d %d", &semester, &c);

if ((department == 1

&& a[semester - 3].tc\_books[c - 1] == 0)

|| (department == 2

&& a[semester - 3].is\_books[c - 1] == 0))

printf ("THIS BOOK IS NOT AVAILABLE \n");

else if (temp->booksrented == 3)

printf ("YOU CANNOT RENT MORE THAN 3 BOOKS \n");

else

{

if (department == 1)

a[semester - 3].tc\_books[bookch - 1]--;

else

a[semester - 3].is\_books[bookch - 1]--;

temp->booksrented++;

printf

("Order CONFIRMED. Please collect it from the PITSTOP \n");

printf

("DO YOU WANT TO RENT MORE BOOKS from the other semester or department \n 1) YES \t 2) NO \n");

scanf("%d", &c);

}

}while (c == 1); break;

case 3:

printf

(" NAME: %s \n USER ID %d \n BOOKS ADDED %d \n BOOKS TAKEN %d \n",

temp->name, temp->userid, temp->booksadded,

temp->booksrented);

break;

}

}while (c != 4);

}

}

void reg ()

{

users \*temp = (users \*) malloc (sizeof (users));

i += 10;

printf (" \n REGISTRATION PAGE \n PLEASE ENTER YOUR NAME ");

scanf ("%s", temp->name);

printf ("\n PLEASE SET UP A NUMERICAL PASSWORD ");

scanf ("%d", &logpwd);

temp->password = logpwd;

printf ("\n\*\*\*\*\*\*\* YOUR USER ID IS %d \*\*\*\*\*\*\*\n", i);

temp->userid = i;

temp->next = head;

head = temp;

}

void display (int semester, int department)

{

switch (semester)

{

case 3:

if (department == 1)

printf

("1) MATHS 3 \n 2) ACD \n 3) DCD \n 4) NA \n 5) EMT \n 6)DATA STRUCTURES using C \n 7) BES \n");

else if (department == 2)

printf

("1) MATHS 3 \n 2) COA \n 3) ME \n 4) DMS \n 5) OOPS \n 6)DATA STRUCTURES using C \n");

break;

case 4:

if (department == 1)

printf

("1) MATHS 4 \n 2) MicroControllers \n 3) MicroElectronics \n 4) Signals \n 5) MATLAB \n 6)Web development \n 7) Android development");

else if (department == 2)

printf

("1) MATHS 4 \n 2) DC \n 3) SE \n 4) Design Algorithms \n 5) MicroProcessors \n 6)Finite Automata \n");

break;

case 5:

if (department == 1)

printf

("1) DSP \n 2) AC \n 3) MA Engineering \n 4) ITC \n 5) ME \n 6) IOT \n 7) DATA STRUCTURES using C++");

else if (department == 2)

printf

("1) Computer Networks \n 2) Operation Research \n 3) Operating Systems \n 4) DMS \n 5) IPR \n 6)IMAGE PROCESSING \n 7) NL PROCESSING \n");

break;

case 6:

if (department == 1)

printf

("1) DC \n 2) Computer NETWORKING \n 3) ESD \n 4) MACHINE LEARNING \n 5) OPERATING SYSTEMS");

else if (department == 2)

printf

("1) System Software \n 2) C++ \n 3) JAVA & J2EE \n 4) MACHINE LEARNING \n 5) COMPILER DESIGN \n 6)DST \n");

break;

}

}

void available ()

{

printf ("SEMESTER III \n TELECOM \n");

printf

(" 1) MATHS 3 %d \n 2) ACD %d \n 3) DCD %d\n 4) NA %d\n 5) EMT %d\n 6)DATA STRUCTURES using C %d\n 7) BES %d \n",

a[0].tc\_books[0], a[0].tc\_books[1], a[0].tc\_books[2],

a[0].tc\_books[3], a[0].tc\_books[4], a[0].tc\_books[5],

a[0].tc\_books[6]);

printf

("\n ISE \n 1) MATHS 3 %d\n 2) COA %d\n 3) ME %d\n 4) DMS %d\n 5) OOPS %d\n 6)DATA STRUCTURES using C %d\n",

a[0].is\_books[0], a[0].is\_books[1], a[0].is\_books[2],

a[0].is\_books[3], a[0].is\_books[4], a[0].is\_books[5],

a[0].is\_books[6]);

printf ("\nSEMESTER IV \nTELECOM \n");

printf

(" 1) MATHS 4 %d\n 2) MicroControllers %d\n 3) MicroElectronics %d\n 4) Signals %d\n 5) MATLAB %d\n 6)Web development %d\n 7) Android development %d",

a[1].tc\_books[0], a[1].tc\_books[1], a[1].tc\_books[2],

a[1].tc\_books[3], a[1].tc\_books[4], a[1].tc\_books[5],

a[1].tc\_books[6]);

printf

("\n ISE \n 1) MATHS 4 %d\n 2) DC %d\n 3) SE %d\n 4) Design Algorithms %d\n 5) MicroProcessors %d\n 6)Finite Automata %d\n",

a[1].is\_books[0], a[1].is\_books[1], a[1].is\_books[2],

a[1].is\_books[3], a[1].is\_books[4], a[1].is\_books[5],

a[1].is\_books[6]);

printf ("\nSEMESTER V \nTELECOM \n");

printf

(" 1) DSP %d\n 2) AC %d\n 3) MA Engineering %d\n 4) ITC %d\n 5) ME %d\n 6) IOT %d\n 7) DATA STRUCTURES using C++ %d",

a[2].tc\_books[0], a[2].tc\_books[1], a[2].tc\_books[2],

a[2].tc\_books[3], a[2].tc\_books[4], a[2].tc\_books[5],

a[2].tc\_books[6]);

printf

("\n ISE \n 1) Computer Networks %d\n 2) Operation Research %d\n 3) Operating Systems %d\n 4) DMS %d\n 5) IPR %d\n 6)IMAGE PROCESSING %d\n 7) NL PROCESSING %d\n",

a[2].is\_books[0], a[2].is\_books[1], a[2].is\_books[2],

a[2].is\_books[3], a[2].is\_books[4], a[2].is\_books[5],

a[2].is\_books[6]);

printf ("\nSEMESTER VI \nTELECOM \n");

printf

(" 1) DC %d\n 2) Computer NETWORKING %d\n 3) ESD %d\n 4) MACHINE LEARNING %d\n 5) OPERATING SYSTEMS %d",

a[3].tc\_books[0], a[3].tc\_books[1], a[3].tc\_books[2],

a[3].tc\_books[3], a[3].tc\_books[4], a[3].tc\_books[5]);

printf

("\n ISE \n 1) System Software %d\n 2) C++ %d\n 3) JAVA & J2EE %d\n 4) MACHINE LEARNING %d\n 5) COMPILER DESIGN %d\n 6)DST %d\n",

a[3].is\_books[0], a[3].is\_books[1], a[3].is\_books[2],

a[3].is\_books[3], a[3].is\_books[4], a[3].is\_books[5]);

}