**-TEAM ELITE**

**INTRO:** **A College library management is a project that manages and stores books information electronically according to students needs. The system helps both students and library manager to keep a constant track of all the books available in the library. It allows both the admin and the student to search for the desired book. Any errors are avoided by allowing the system to keep track of information and thus there is no need to keep manual track of this information which thereby avoids chances of mistakes.**

**FEATURES AND DESCRIPTION:**

It includes the information such as:

\* Adding book information

\*Display book information

\*List all books of given author

\* List the title of specified book

\*List the count of books in the library

**SOURCE CODE:**

#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

#include<string.h>

struct library

{ char bk\_name[30];

char author[30];

int pages;

float price;

};

int main()

{

struct library l[100];

char ar\_nm[30],bk\_nm[30];

int i,j, keepcount;

i=j=keepcount = 0;

while(j!=6)

{

printf("\n\n1. Add book information\n2. Display book information\n");

printf("3. List all books of given author\n");

printf("4. List the title of specified book\n");

printf("5. List the count of books in the library\n");

printf("6. Exit");

printf ("\n\nEnter one of the above : ");

scanf("%d",&j);

switch (j)

{

case 1: /\* Add book \*/

printf ("Enter book name = ");

scanf ("%s",l[i].bk\_name);

printf ("Enter author name = ");

scanf ("%s",l[i].author);

printf ("Enter pages = ");

scanf ("%d",&l[i].pages);

printf ("Enter price = ");

scanf ("%f",&l[i].price);

keepcount++;

break;

case 2:/\*display info\*/

printf("you have entered the following information:\n");

for(i=0; i<keepcount; i++)

{

printf ("book name = %s",l[i].bk\_name);

printf ("\nauthor name = %s",l[i].author);

printf ("\npages = %d",l[i].pages);

printf ("\nprice = %f\n",l[i].price);

}

break;

case 3:

printf ("Enter author name : ");

scanf ("%s",ar\_nm);

for (i=0; i<keepcount; i++)

{

if (strcmp(ar\_nm, l[i].author) == 0)

printf("%s \t by %s \tno.of pages: %d \tprice: %f",l[i].bk\_name,l[i].author,l[i].pages,l[i].price);

} break;

case 4:

printf ("Enter book name : ");

scanf ("%s",bk\_nm);

for (i=0; i<keepcount; i++)

{

if (strcmp(bk\_nm, l[i].bk\_name) == 0)

printf ("%s \t by %s \t no.of pages: %d \tprice: %f",l[i].bk\_name,l[i].author,l[i].pages,l[i].price);

}

break;

case 5:

printf("\n No of books in library : %d", keepcount);

break;

case 6:

exit (0);

}

}

return 0;}

**SAMPLE OUPUTS:**

**1. Add book information**

**2. Display book information**

**3. List all books of given author**

**4. List the title of specified book**

**5. List the count of books in the library**

**6. Exit**

**Enter one of the above : 1**

**Enter book name = HELLO**

**Enter author name = MEERA**

**Enter pages = 60**

**Enter price = 20**

**1. Add book information**

**2. Display book information**

**3. List all books of given author**

**4. List the title of specified book**

**5. List the count of books in the library**

**6. Exit**

**Enter one of the above : 2**

**you have entered the following information**

**book name = HELLO**

**author name = MEERA**

**pages = 60**

**price = 20.000000**

**1. Add book information**

**2. Display book information**

**3. List all books of given author**

**4. List the title of specified book**

**5. List the count of books in the library**

**6. Exit**

**Enter one of the above : 3**

**Enter author name : MEERA**

**HELLO by MEERA no.of pages: 60 price: 20.000000**

**1. Add book information**

**2. Display book information**

**3. List all books of given author**

**4. List the title of specified book**

**5. List the count of books in the library**

**6. Exit**

**Enter one of the above : 4**

**Enter book name : HELLO**

**HELLO by MEERA no.of pages: 60 price: 20.000000**

**1. Add book information**

**2. Display book information**

**3. List all books of given author**

**4. List the title of specified book**

**5. List the count of books in the library**

**6. Exit**

**Enter one of the above : 5**

**No of books in library : 1**

**1. Add book information**

**2. Display book information**

**3. List all books of given author**

**4. List the title of specified book**

**5. List the count of books in the library**

**6. Exit**

**Enter one of the above : 6**

**...Program finished with exit code 0**

**CONCLUSION AND FUTURE SCOPE:**

The project helped to provide complete knowledge of C language. We were able to develop logics which will help us to create future programs, applications in C. Also by learning the basic programming constructs we can easily switch over to any other language in future.

[-TEAM ELITE : VANSHIKA(060) AND ANKITHA(021) ]

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char ar\_nm[30],bk\_nm[30];

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i=j=keepcount = 0;

while(j!=6)

{

printf("\n\n1. Add book information\n2. Display book information\n");

printf("3. List all books of given author\n");

printf("4. List the title of specified book\n");

printf("5. List the count of books in the library\n");

printf("6. Exit");

printf ("\n\nEnter one of the above : ");

scanf("%d",&j);

switch (j)

{

case 1: /\* Add book \*/

printf ("Enter book name = ");

scanf ("%s",l[i].bk\_name);

printf ("Enter author name = ");

scanf ("%s",l[i].author);

printf ("Enter pages = ");

scanf ("%d",&l[i].pages);

printf ("Enter price = ");

scanf ("%f",&l[i].price);

keepcount++;

break;

case 2:

printf("you have entered the following information:\n");

for(i=0; i<keepcount; i++)

{

printf ("book name = %s",l[i].bk\_name);

printf ("\nauthor name = %s",l[i].author);

printf ("\npages = %d",l[i].pages);

printf ("\nprice = %f\n",l[i].price);

}

break;

case 3:

printf ("Enter author name : ");

scanf ("%s",ar\_nm);

for (i=0; i<keepcount; i++)

{

if (strcmp(ar\_nm, l[i].author) == 0)

printf("%s \t by %s \tno.of pages: %d \tprice: %f",l[i].bk\_name,l[i].author,l[i].pages,l[i].price);

} break;

case 4:

printf ("Enter book name : ");

scanf ("%s",bk\_nm);

for (i=0; i<keepcount; i++)

{

if (strcmp(bk\_nm, l[i].bk\_name) == 0)

printf ("%s \t by %s \t no.of pages: %d \tprice: %f",l[i].bk\_name,l[i].author,l[i].pages,l[i].price);

}

break;

case 5:

printf("\n No of books in library : %d", keepcount);

break;

case 6:

exit (0);

}

}

return 0;}