Computer project on Library Management System

Afrin Rukshar, D-64, Stream: CSE(AIML)
EN-12022002016052

```
// block 1
// to import standard input and output
#include <stdio.h>
// to import clear statements, etc (if any)
#include <conio.h>
// to import standard libraries
#include <stdlib.h>
// to import strings and use strings
#include <string.h>

// block 2

// declare all variables which store their respective
// data using structure 'library'
struct library
{
  // store the name of the book
  char char book_name [100];
  // store the name of the author of the book
  char author_name [100];
  // store the cost of the book
  float cost;
  // to store the number of pages of the book
  int no_of_pages;
```

```
// block 3

// main function
int main()
{
  // using the struct library again
  // in order to perform operations
struct library lib[100];
char book_name[100];
int i, j, count;
i=0;
j=0;
count=0;

// block 3.1

while(j!=6)
{
printf("\n\n1. Add book details\n");
printf("2. Display the list of books and its details\n");
printf("3. Display the total no. of books in the library");
printf("4. Exit\n\n");
printf("Enter the number:");
scanf("%d", &j);

// block 3.1.1

switch(j)
{
// in order to add the book details
case 1:
printf("\n You can add the details of the book");
printf("\n Enter the book name:");
scanf("%s", lib[i].book_name);
printf("\n Enter the author name:");
scanf("%s", lib[i].author_name);
printf("\n Enter the number of pages:");
```

```
scanf("%d", &lib[i].no_of_pages);
printf("\n Enter the cost of the book :");
scanf("%f", &lib[i].cost);
count = count+1;
i = i+1;
break;

case 2:
// if there are no books registered previously
if(count==0)
 {
  printf("\n There are no books stored !! \n \n");
 }
  else
 {
  // to view the list of books
  printf("\n You can view the list of books");
  printf("\n The list of books are :");
  for(i=0 ; i<count ; i++)
   {
    printf("\n The name of the book is : %s", lib[i].book_name);
    printf("\n The name of the author is : %s", lib[i].author_name);
    printf("\n The number of pages are : %d", lib[i].no_of_pages);
    printf("\n The cost of the book is : %f \n \n", lib[i].cost);
   }
 }
 break;

case 3:

 // to view the total number of books
printf("\n Total no of books in the library are : %d \n \n", count);
break;

case 4:
 // to exit from the program
 exit(0);
```

```
default:
// if any number other than 1,2,3,4 is entered
printf("\n Invalid number entered \n \n");
    }
  }
}
```

```
// block 1

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#include <stdio.h>

// to import clear statements, etc. ( if any )

#include <conio.h>

// to import standard libraries

#include <stdlib.h>

// to import strings and use strings

#include <string.h>
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```
// block 2


// declare all variables which store their respective
// data using structure ' library '
struct library
{
   // to store the name of the book
   char book_name[100];
   // to store the name of the author of the book
   char author_name[100];
   // to store the cost of the book
   float cost;
   // to store the number of pages of the book
   int no_of_pages;
};
```

```
// block 3


// main function
int main()
{
    // using the strut library again.'
    // in order to perform operations
    struct library lib[100];
    char book_name[100];
    int i, j, count;
    i = 0;
    j = 0;
    count = 0;
```

```
// block 3.1


while(j!=6)

{

   printf(" \n\n1. Add Book details\n ");

   printf(" 2. Display the list of books and its details\n '

   printf(" 3. Display the total no. of books in the library

   printf(" 4. Exit\n\n");

   printf(" Enter the number: ");

   scanf(" %d", &j);
```

```
// block 3.1.1


switch(j)

{

   // in order to add the book details

   case 1:

      printf(" \nYou can add the details of the book

      printf(" \nEnter the book name: ");

      scanf(" %s", lib[i].book_name);

      printf(" \nEnter the author name: ");

      scanf(" %s", lib[i].author_name);

      printf(" \nEnter the number of pages: ");

      scanf(" %d", &lib[i].no_of_pages);

      printf(" \nEnter the cost of the book: ");

      scanf(" %f", &lib[i].cost);

      count = count + 1;

      i = i + 1;

      break;
```

```
case 2:
   // if there are no books registered previously
   if (count==0)
   {
      printf(" \nThere are no books stored!!\n\n ");
   }
   else
   {
      // to view the list of the books
      printf(" \nYou can view the list of books ");
      printf(" \nThe list of books are: ");
```

```
for(i=0; i < count; i++)
{
    printf(" \nThe name of the book is: %s ", lib[i].book_name);
    printf(" \nThe name of the author is: %s ", lib[i].
    printf(" \nThe number of pages are: %d ", lib[i].no_of_pages);
    printf(" \nThe cost of the book is: %f\n\n ", lib[i
}
```

```
case 3:
    // to view the total number of books
    printf(" \nTotal number of books in the library are: %d\n\n ", count);
    break;

case 4:
    // to exit from the program
    exit(0);
```

```
        default:
            // if any number other than 1, 2, 3, 4 is entered
            printf(" \nInvalid number entered\n\n ");
    }

}

}
```