

MINI PROJECT

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Topic : LIBRARY MANAGEMENT

Language Used : C

Operating system : windows 7(minimum)

OBJECTIVE:

The project's main objective to reduce the work and provide seamless experience for people who come to library by authorizing all the basic requirements by compiling a code in c language.

INPUT:

```
// C program for the E-library
```

```
// Management System
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
// Create Structure of Library
```

```
struct library {
```

```
    char book_name[20];
```

```
    char author[20];
```

```
    int pages;
```

```
    float price;
```

```
};
```

```
// Driver Code
```

```
int main()
```

```
{
```

```
    // Create a instance
```

```
    struct library lib[100];
```

```
    char ar_nm[30], bk_nm[30];
```

```
    // Keep the track of the number of
```

```
    // of books available in the library
```

```
    int i, input, count;
```

```
    i = input = count = 0;
```

```
// Iterate the loop
```

```
while (input != 5) {
```

```
    printf("\n\n*****#####"
```

```
        "WELCOME TO E-LIBRARY "
```

```
        "#####*****\n");
```

```
    printf("\n\n1. Add book infor"
```

```
        "mation\n2. Display "
```

```
        "book information\n");
```

```
    printf("3. List all books of "
```

```
        "given author\n");
```

```
    printf(
```

```
        "4. List the count of book"
```

```
    "s in the library\n");  
printf("5. Exit");
```

```
// Enter the book details  
printf("\n\nEnter one of "  
    "the above: ");  
scanf("%d", &input);
```

```
// Process the input  
switch (input) {
```

```
// Add book  
case 1:
```

```
printf("Enter book name = ");  
scanf("%s", lib[i].book_name);
```

```
printf("Enter author name = ");  
scanf("%s", lib[i].author);
```

```
printf("Enter pages = ");  
scanf("%d", &lib[i].pages);
```

```
printf("Enter price = ");  
scanf("%f", &lib[i].price);  
count++;
```

```
break;
```

```
// Print book information
```

```
case 2:
```

```
    printf("you have entered"
```

```
        " the following "
```

```
        "information\n");
```

```
    for (i = 0; i < count; i++) {
```

```
        printf("book name = %s",
```

```
            lib[i].book_name);
```

```
        printf("\t author name =
```

```
%s",
```

```
            lib[i].author);
```

```
        printf("\t pages = %d",  
                lib[i].pages);  
  
        printf("\t price = %f",  
                lib[i].price);  
    }  
    break;
```

// Take the author name as input
case 3:

```
    printf("Enter author name : ");  
    scanf("%s", ar_nm);  
    for (i = 0; i < count; i++) {
```



```
        if (strcmp(ar_nm,
                    lib[i].author)
            == 0)
            printf("%s %s %d %f",
                    lib[i].book_name,
                    lib[i].author,
                    lib[i].pages,
                    lib[i].price);
    }
    break;
```

// Print total count

case 4:

```
        printf("\n No of books in "  
            "brary : %d",  
            count);  
        break;  
    case 5:  
        exit(0);  
    }  
}  
return 0;  
}
```

OUTPUT:

Output

Clear

```
^ /tmp/gBR6u0lJ7B.o
*****WELCOME TO E-LIBRARY *****
1. Add book information
2. Display book information
3. List all books of given author
4. List the count of books in the library
5. Exit

Enter one of the above:
```