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
// 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;
};
```

```c
// 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;
```

```c
    // 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"
```

```c
        "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
```

```c
        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++;
```

```c
                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",
```

```c
                    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++) {
```

```c
            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 "
```

```c
                "brary : %d",

            count);

break;        case 5:

exit(0);

        }

    }

    return 0;
}
```

OUTPUT:

```
/tmp/gBR6uO1J7B.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:
```