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UNIVERSITY AP
Andhra Pradesh

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Name of the project:-

**** LIBRARY MANAGEMENT SYSTEM****



*This is the project on **Library Management System**. It tells us the information about the books in the library.*

It takes the following output from the user.

- 1.Add book information.*
- 2.It displays information of the book.*
- 3.List of all books given by the author.*
- 4.The number of books.*

Let us see the basic code for this arrangement.

Source code:

//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;
}
-----printf("END")-----
```

Output

/tmp/yeP2ApZzZL.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: 1

Enter book name = ANCIC

Enter author name = Balu

Enter pages = 700

Enter price = 750

*****#####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: 2

you have entered the following information

book name = ANCIC author name = Balu pages = 700 price = 750.000000

*****#####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: 3

Enter author name : Balu

ANCIC Balu 700 750.000000

*****#####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: 4

No of books in brary : 1

