## **Library Management System**

## **Program:**

```
#include<iostream>
#include<string.h>
using namespace std;
class Library Information
       private:
              char b_name[100];
              char aut name[100];
              int pub date;
              int b id;
              int b_price;
              int b_qut;
              int b no;
              int b_pg;
       public:
              void case1 data()
                      cout <<endl;
                      cout << endl << '' \setminus t \setminus t \setminus t =
                                                           ====== Add Book Information
                          cin >> this->b_name;
                      cout <<"\t\t\t\t\t. Enter Book Name: ";
                      cout <<"\t\t\t\t\t. Enter Author Name : ";</pre>
                                                                         cin >this->aut name;
                      cout <<"\t\t\t\t. Enter Publication Date : ";</pre>
                                                                         cin this->pub date;
                      cout <<"\t\t\t\t\t. Enter Book's ID : ";</pre>
                                                                         cin >> this->b id;
                                                                         cin >> this->b_price;
                      cout <<"\t\t\t\t. Enter Book's price : ";</pre>
                      cout <<"\t\t\t\t\. Enter Book's Quantity : ";</pre>
                                                                         cin >> this->b qut;
                      cout<<"\t\t\t\t======
```

```
void case2_data()
                     cout <<endl<<endl;
                     cout <<endl<<"\t\t\t\t\t======= Display Book Information
                         ======="<<endl<<endl;
                     cout <<"\t\t\t\t\t. Enter Book No : ";</pre>
                                                               cin >>this->b no;
                     cout <<"\t\t\t\t. Enter Book Name : "; cin >>this->b name;
                     cout <<"\t\t\t\t\t. Enter Author Name : ";</pre>
                                                                 cin >>this->aut name;
                     cout <<"\t\t\t\t. Enter No.of pages : ";</pre>
                                                               cin >>this->b pg;
                     cout<<"\t\t\t\t\t=====
                              ======="<<endl<<endl;
              }
              void case3 data()
                     cout <<endl<<"\t\t\t\t\t======= List the count of books in the library
                       ======"<<endl;
              char case4_data()
                     return this->b name[100];
              int case5 data()
                     return this->b id;
};
int main()
       Library_Information i[100];
       int count=0;
       int choice ,j,n;
       cout <<endl<<"\t\t\t\t\t* How Many Record You Want To Add :- ";</pre>
                                                                              cin >> n;
       do
       {
```

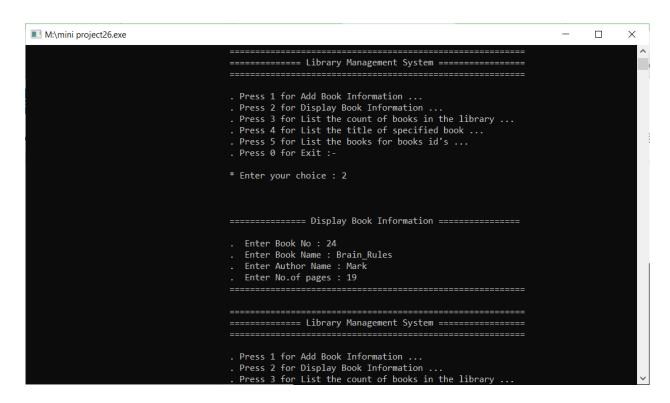
```
cout << "\t\t\t\t\t\t==
cout <<endl<<"\t\t\t\t\t========= Library Management System
cout << endl << "\t\t\t\t =
          ======"<<endl;
cout <<endl;</pre>
cout <<"\t\t\t\t\t. Press 1 for Add Book Information ... "<<endl;
cout <<"\t\t\t\t. Press 2 for Display Book Information ... "<<endl;
cout <<"\t\t\t\t\. Press 3 for List the count of books in the library ... "<<endl;
cout <<"\t\t\t\t\t. Press 4 for List the title of specified book ... "<<endl;
cout <<"\t\t\t\t. Press 5 for List the books for books id's ... "<<endl;
cout <<"\t\t\t\t\. Press 0 for Exit :- "<<endl;
cout <<endl;
cout <<"\t\t\t\t\t\t* Enter your choice : ";</pre>
cin >> choice;
switch(choice)
        case 1:
               for(j=0;j< n;j++)
                       i[j].case1_data();
               break;
        case 2:
               for(j=0;j< n;j++)
                       i[j].case2_data();
               break;
        case 3:
               i[j].case3 data();
               for(j=0;j< n;j++)
```

```
count++;
                   }
                   cout <<endl<<"\t\t\t\t\t Total number of book : "<<count</pre>
                   <<endl<<endl;
                   break;
             case 4:
                   cout <<\!\!endl<<\!\!"\backslash t\backslash t\backslash t\backslash t\!\!=> Books\ title\ \text{:-}\ ";
                   for(j=0;j< n;j++)
                         cout << i[j].case4 data()<<" ";
                   cout << endl<<endl;
                   break;
             case 5:
                   cout <<\!\!endl<<''\backslash t\backslash t\backslash t\backslash t\!\!=> Books\ ID:-'';
                   for(j=0; j < n; j++)
                         cout << i[j].case5 data() << " ";
                   cout << endl<<endl;
                   break;
             case 0:
                   break;
             default:
                   cout <<"Invalid Entry....";</pre>
}while(choice!=0);
return 0;
```

}

## **Output:**

```
M:\mini project26.exe
                                                                                                                      \times
                                          * How Many Record You Want To Add :- 1
                                          ====== Library Management System ==========
                                         . Press 1 for Add Book Information ...
                                          . Press 2 for Display Book Information ...
                                         Press 3 for List the count of books in the library ...
Press 4 for List the title of specified book ...
                                         . Press 5 for List the books for books id's ...
. Press 0 for Exit :-
                                          * Enter your choice : 1
                                          ======== Add Book Information ===========
                                          . Enter Book Name : Brain_Rules
                                            Enter Author Name : Mark
                                          . Enter Publication Date : 2019
                                          Enter Book's ID : 26
Enter Book's price : 500
                                          . Enter Book's Quantity : 25
                                          ======= Library Management System ==========
```



■ M:\mini project26.exe	_	×
		^
Library Management System		
. Press 1 for Add Book Information Press 2 for Display Book Information Press 3 for List the count of books in the library Press 4 for List the title of specified book Press 5 for List the books for books id's Press 0 for Exit :-  * Enter your choice : 3		
======= List the count of books in the library ========		
Total number of book : 1		
======================================		
Press 1 for Add Book Information Press 2 for Display Book Information Press 3 for List the count of books in the library Press 4 for List the title of specified book Press 5 for List the books for books id's Press 0 for Exit :-		
* Enter your choice :		<b>~</b>

-			
M:\mini project26.exe		_	×
			^
	======================================		
	. Press 1 for Add Book Information		
	. Press 2 for Display Book Information		
	. Press 3 for List the count of books in the library		
	. Press 4 for List the title of specified book		
	. Press 5 for List the books for books id's		
	. Press 0 for Exit :-		
	THESS SIGNERAL .		
	* Enter your choice : 4		
	======================================		
	=> Books title :- M		
	======= Library Management System =========		
	=======================================		
	. Press 1 for Add Book Information		
	. Press 2 for Display Book Information		
	. Press 3 for List the count of books in the library		
	. Press 4 for List the title of specified book		
	. Press 5 for List the books for books id's		
	. Press 0 for Exit :-		
	. ITESS O FOI EXIC.		
	* Enter your choice :		~

■ M:\mini project26.exe		_	×
			^
Library Management System	==		
. Press 1 for Add Book Information			
. Press 2 for Display Book Information			
. Press 3 for List the count of books in the library $\dots$			
. Press 4 for List the title of specified book			
. Press 5 for List the books for books $\operatorname{\sf id}$ 's $\ldots$			
. Press 0 for Exit :-			
* Enter your choice : 5			
======== List of books for book's ID =========			
=> Books ID :- 26			
Library Management System			
. Press 1 for Add Book Information			
. Press 2 for Display Book Information			
Press 3 for List the count of books in the library			
. Press 4 for List the title of specified book			
Press 5 for List the books for books id's			
. Press 0 for Exit :-			
* Enter your choice :			~

M:\mini project26.exe		_	×
	=> Books ID :- 26		
	Library Management System		
	Press 1 for Add Book Information Press 2 for Display Book Information Press 3 for List the count of books in the library Press 4 for List the title of specified book Press 5 for List the books for books id's Press 0 for Exit :-		
	* Enter your choice : 0		
Process exited after 38.34 seconds we Press any key to continue	with return value 0		