

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <stdlib.h>
4 #define N 100
5
6 /* Prototypes */
7 void borrowBook(int);
8 void viewBooks(int);
9 void returnBook(int);
10
11 /* Global Variables */
12 int stdNum[N], isbnNum[N], num, i, *pISBN=NULL;
13 char bookTitle[N][N];
14
15 int main(void)
16 {
17     char defaultPsswr[] = "Admin123";
18     int loginAttempt = 0, option;
19     char password[N], answr[N];
20
21     /* Clear ouput screen */
22     system("clear");
23
24     jump:
25     while (loginAttempt < 3)
26     {
27         printf("Password: ");
28         scanf("%s", password);
29
30         if (strcmp(password, defaultPsswr) == 0)
31         {
32             printf("\n*****\n");
33             printf("DKUT Library Management System\n");
34             printf("*****\n");
35             printf("1. Borrow a Book\n");
36             printf("2. View borrowed books\n");
37             printf("3. Return a Book\n");
38             printf("4. Quit\n");
39             break;
40         }
41         else
42             loginAttempt++;
43     }
44
45     if (loginAttempt == 3)
46     {
47         system("clear"); // Clear screen
48         printf("You have exhausted your number of login");
49     }
50     else
51     {
```

```
52 // Choose from 1-4
53 scanf("%d", &option);
54 system("clear"); // Clear screen
55     switch (option)
56     {
57     case 1:
58         printf("How many student?\n->: ");
59         scanf("%d", &num);
60         borrowBook(num);
61         printf("Do you want to issue another book?: ");
62         scanf("%s", answr);
63         system("clear"); // clear screen
64         if (strcmp(answr, "y") == 0 | strcmp(answr, "Y") == 0)
65             goto jump;
66         break;
67
68     case 2:
69         viewBooks(num);
70         break;
71
72     case 3:
73         returnBook(num);
74         break;
75
76     case 4:
77         break;
78     }
79 }
80 return (0);
81 }
82
83 /*
84  * borrowBook - Store arrays of Student Number, ISBN, Book Title.
85  * @num: Number of items to be stored.
86  */
87 void borrowBook(int num)
88 {
89     printf("Student Number\n");
90     printf("-----\n");
91     for (i = 0; i < num; i++)
92     {
93         printf("stduent %d: ", i+1);
94         scanf("%d", &stdNum[i]);
95     }
96
97     printf("ISBN\n");
98     printf("-----\n");
99     for (i = 0; i < num; i++)
100     {
101         printf("ISBN %d: ", i+1);
102         scanf("%d", &isbnNum[i]);
```

```
103     }
104
105     printf("Book Title\n");
106     printf("-----\n");
107     for (i = 0; i < num; i++)
108     {
109         printf("Book Title %d: ", i+1);
110         // read & ignore extra characters
111         getchar();
112         // read string with spaces
113         scanf("%[^\n]s", &bookTitle[i]);
114     }
115 }
116
117 /*
118  * viewBooks - View student record of borrowed books.
119  * @num: Number of item.
120  */
121 void viewBooks(int num)
122 {
123     for (i = 0; i < num; i++)
124     {
125         printf("\nStudent %d\n", i+1);
126         printf("=====\n");
127         printf("- Student Number: %d\n", stdNum[i]);
128         printf("- ISBN: %d\n", isbnNum[i]);
129         printf("- Book Title: %s\n", bookTitle[i]);
130     }
131 }
132
133 /*
134  * returnBook - Checks if a borrowed book is returned or not.
135  * @num: Number of item.
136  */
137 void returnBook(int num)
138 {
139     printf("ISBN: ");
140     scanf("%d", pISBN);
141
142     for (i = 0; i < num; i++)
143     {
144         if (*pISBN == isbnNum[i])
145             printf("Return Succesfully");
146         else
147             printf("Not returned");
148     }
149 }
```