C++ Big Job User Manual

**Assignment Topic:** School Library Management System

**Program function:** This program is a library management system, user login is divided into administrator and user two login methods, users and administrators will have different functional access rights after logging in. Administrators can add new book information, delete book materials, query book materials, change book materials, register users, query users, and change user information for a total of 7 features. After logging in, users can borrow books, return books, search books, query their own user information and change user information a total of 5 functions.

**Main interface:** After opening this program, 3 options will appear for the user to choose, namely "[1] Login as User", "[2] Login as Admin" and "[3] Exit System" ", corresponding to user login, administrator login and system exit. The user is able to enter the number corresponding to the option ([1], [2], [3]). to perform the corresponding function.

**[1] Login as User**: When the user enters option "1" to perform user login, the system will pop up "Please enter your student id." : : At this time, the user should enter the registered 10-digit student student number (the user registration method will be described in detail in the administrator interface section), if the student enters the unregistered student number or enters other strings, the program will output "No" such user， please input valid user student id：” And ask the user to enter the student number again. When the student enters the registered student number, the program will output "Please type in your password:" to signal the student to enter the user password corresponding to the student number. If the user enters the wrong password, the system will output "Incorrect password! Please try again！ And ask the user to enter the password again. After the user enters the correct password, the system will be redirected to the user interface (the user interface introduction is described in detail in the user interface section).

**[2] Login as Administrator:** When the user enters option "2" to perform administrator login, the system will pop up "Please enter password:" Signal the user to enter the administrator password, the administrator password is consistent with the default default to "123456", if the user enters the wrong password, the system will output "Incorrect" password，please ensure you have entered the correct password And ask the user to enter the administrator password again. After the user enters the correct administrator password "123456", the system will be redirected to the administrator interface (the administrator interface introduction will be described in detail in the administrator interface section).

**[3] Exit System:** When the user enters option "3" to exit the system, the system will output "Thank you for using this system----exiting system." At this point, the user only needs to press any button twice to exit the system.

**Other inputs:** If the user enters characters that are not numeric, the system will output "Please enter numbers only" and ask the user to enter the command again. If the user enters an instruction number other than 1, 2, 3) that is not specified, the system will output "Command Error! Please enter command again" and ask the user to enter the command again.

**User Interface:**  After opening this program, 7 options will appear for the user to choose, namely "[1] Borrow a book", "[2] Return a book"**,** "[3] Find book in" database","[4] Show user","[5] Edit user information","[6] Logout System", and "[7] Exit System", which corresponds to borrowing books, returning books, searching for books, displaying user information, changing user information, logging out of the system, and exiting the system. The user can enter the corresponding number ([1], [2], [3], [4) corresponding to the option ]，[5]，[6]，[7] ) to perform the corresponding function.

**[1] Borrow a book**: When the user enters option "1" to perform the borrowing book function, the system will jump to the borrowing book interface, and when entering the interface, the system will provide the book information in the book library and the corresponding book of the book Code (Book Code). The system will output the information of the book (title, author name, international book number, book publisher, book location, number of collections) in order according to the book code of the book. The system also outputs "Please enter the Book Code of the book you wish to." borrow" and asks the user to enter the book code of the book he wishes to borrow (the book code can be found by referring to the book information output above or using the search book function in the user interface). If the user enters a non-numeric character, the system will output "Please enter numbers only" and ask the user to enter the command again, if the user enters the book code without the corresponding book The system will output "Your entry is invalid, please enter again:" and ask the user to enter the command again, if the number of books corresponding to the book code entered by the user is 0 The system will output "The Library currently does not have the book you wish to borrow, please choose another book" and ask the user to enter the command again. When the user enters a valid book code, the system will output "The Date of Borrow is:" along with the current day's date to remind the user The date the book was borrowed, followed by "The Date of Return is:" and a date two months from now to remind the user The date the book was returned, and the final output "You have successfully borrowed the book!." Remind the user that he has successfully borrowed the book. The user can press any key to continue and return to the user interface.

**[2] Return a book:** When the user enters option "2" to perform the return book function, the system will jump to the return book interface, and when entering the interface, the system will provide the user's borrowing record and the corresponding borrow code (Borrow Code). ）。 The system outputs the borrowing record information (borrowed title, borrowing date, return date) in order according to the borrowing code of the borrowing record. The system also outputs "Please enter the Borrow Code of the book you wish to" below return" indicates that the user enters the borrowing code of the book they wish to return. If the user enters non-numeric characters, the system will output "Please enter numbers only" and ask the user to enter the command again, if the user input does not have a corresponding borrowing record When borrowing a code, the system will output "Invalid code! please enter again！ If the user enters the borrowing code belonging to another user's borrowing record, the system will output "The code does not sync your borrow record, please enter." again" and asks the user to enter the command again. When the user enters a valid library code, the system will output "You have successfully returned the book " to indicate that the user has successfully returned the book. The user can press any key to continue and return to the user interface.

**[3] Find book in database:** When the user enters option "3" to execute the search book function, the system will jump to the search book interface, and after entering the interface, 3 options will appear for the user to choose, respectively "[1] Search by book title" , "[2] Search by author name" and "[3] Return to last page", which corresponds to searching by book title, searching by author name, and returning to the previous page. The user can perform the corresponding function by entering the number corresponding to the option ( [1] , [2] , [3] ).

[1] Search by book title: When the user enters option "1" to perform a search based on book title, the system will output "Please enter the book." title: " Indicates that the user enters the title of the book they wish to retrieve. This function supports fuzzy retrieval, does not require the user to enter the full name of the book, only enter part of the name can also output the corresponding book, but you need to pay attention to the case of the letters, otherwise it will cause output errors. If the user does not enter any information to search, the system will output "Do not leave input blank!!" Signal the user to enter the information again, if there is no suitable book in the library, the system will output "No results found, please check to see if you have enter the correct spelling." And ask the user to enter the information again. If there are books in the library that match the information entered by the user, the information of the books (book code, title, author name, international book number, book publisher, location of the book, number of books) will be output according to the order of the book code. The user can press any key to continue and return to the search book interface.

[2] Search by author name: When the user enters option "2" to perform a search based on author name, the system will output "Please enter the." name of the Author: "Indicates that the user enters the author name of the book they wish to retrieve. This function supports fuzzy retrieval, does not require the user to enter the full name of the author, only the last name or part of the name can also output the corresponding book, but you need to pay attention to the case of the letters, otherwise it will cause output errors. If the user does not enter any information to search, the system will output "Do not leave input blank!!" Signal the user to enter the information again, if there is no suitable book in the library, the system will output "No results found, please check to see if you have enter the correct spelling" and ask the user to enter the information again. If there are books in the library that match the information entered by the user, the information of the books (book code, title, author name, international book number, book publisher, location of the book, number of books) will be output according to the order of the book code. The user can press any key to continue and return to the search book interface.

[3] Return to last page: When the user enters option "3" to perform the return to previous page function, the system immediately jumps to the user interface.

Other inputs: If the user enters characters that are not numeric, the system will output "Please enter numbers only" and ask the user to enter the command again. If the user enters a command number other than 1, 2, 3 that is not specified, the system will output "Command Error!!" Please enter again" and ask the user to enter the command again.

**[4] Show user**: When the user enters option "4" to perform the display user information function, the system will automatically jump to the display user interface and output the user information (user code, user name, user ID number, user password, number of books borrowed) and borrowed book records (book name, borrowing date, return date), If the user has not borrowed any books, the system will output "You have no borrow records.... ” 。 The user can press any key to return to the user interface after completing the user profile.

**[5**] Edit user information**:** When the user enters option "5" to perform the change user profile function, the system will immediately jump to the change user profile interface, and after entering the interface, 2 data options will appear for the user to change "[1] Student Name" and "[2] Password" correspond to changing the user name and changing the user password, respectively. The user can perform the corresponding function by entering the number corresponding to the option ( [1] , [2] ).

[1] Student Name: When the user enters option "1" to perform the change user name function, the system will output "input new data!" " and "Please enter User name:" indicate that the user enters a new user name, and the system will output "You have successfully." edited your profile！ Indicates that the system has finished changing the user's name and that the user can press any key to return to the user interface.

[2] Password: When the user enters option "2" to perform the change user password function, the system will output "input new data!" and "Please enter the password of the User:" to signal the user to enter a new password, and the system will output "You have." successfully edited your profile！ Indicates that the system has finished changing the user's name and that the user can press any key to return to the user interface.

**Other inputs:** If the user enters characters that are not numeric, the system will output "Please enter numbers only" and ask the user to enter the command again. If the user enters a command number other than the specified one (a number other than 1,2), the system will output "Command Error! Please enter again！ And ask the user to enter the command again.

**[6] Logout System:** When the user enters option "6" to perform the logout system function, the system will output "Logging out.... Indicates that the system is logging out of the system and jumps to the main interface after the user presses any key.

**[7] Exit System:** When the user enters option "7" to perform the exit system function, the system will output "Thank you for using this." System----exiting system" indicates that the system is exiting the system and can exit the system after the user presses any key twice.

**Other inputs:** If the user enters characters that are not numeric, the system will output "Please enter numbers only" and ask the user to enter the command again. If the user enters a non-specified instruction number (1, 2, 3, 4, 5, 6, 7) will output "Command Error!" Please try again" and ask the user to enter the command again.

**Administrator Interface:** After opening this program, 9 options will appear for the user to choose, namely "[1] Add new book to database", "[2] Delete book in database”，“[3] Find book in database”，“[4] Edit book in database”，“[5] Create User","[6] Search User" and "[7] Edit user", "[ 8] Logout System", "[9] Exit System", corresponding to adding new book information, deleting book information, querying book information, changing book information, registering users, querying users, changing user information, logging out of the system, and exiting the system. The user can enter the corresponding number ([1], [2], [3], [4) corresponding to the option ]，[5]，[6]，[7] , [8], [9],) to perform the corresponding function.

**[1] Add new book to database**: When the user enters option "1" to perform the Add New Book Information function, the system will jump to Add New Book Material interface, when you first enter the interface, the system will provide the book information in the book library and the book code corresponding to the book. The system will output the information of the book (title, author's name, international book number, book publisher, book location, number of books) in order according to the book's book code. The system also outputs "Please enter Book Title" below to signal the user to enter the title of the new book, which the user should then follow The command "Please enter the Author of the Book:"", "Please enter the ISBN code of the Book:" , ” Please enter the publisher of the book:” , “Please enter the location of the book:” , " Please enter the no. of books on shelf:", enter the name of the author of the new book, the international book number, the book publisher, and the location of the book Location, number of collections. If the user does not enter any characters when entering the book title, author name, international book number, book publisher, and location of the book, the system will output "Please enter a input!" Signal the user to enter the information again. Note that the input for the number of books in the collection must be numeric, if the user enters non-numeric characters, the system will output "Please enter numbers only" If the user enters a number less than zero when entering the number of books, the system will output "Please enter a valid." value" and ask the user to enter the data again. After the user has successfully entered all the information, the system displays "The book has been successfully added!" Indicates that the system has finished adding new book materials, and the user can press any key to return to the administrator interface.

**[2] Delete book in database:** When the user enters option "2" to execute the delete book information function, the system will jump to the delete book information interface, when entering the interface, the system will provide the book information in the book library and the corresponding book code ( Book Code）。 The system will output the information of the book (title, author's name, international book number, book publisher, book location, number of books) in order according to the book's book code. The system also outputs "Please enter the Book Code of the book you wish to delete:" below to signal the user to enter the book code of the book to be deleted, if the user Enter non-numeric characters, the system will output "Please enter numbers only" and ask the user to enter the book code again; If the user enters a book code without a corresponding book, the system will output "Please enter valid input!" And ask the user to enter the book code again. When the user enters a valid book code, the system will display the book information corresponding to the input book code and output "You will be deleting the book shown above" to confirm to the user Whether you want to delete this book. The system will provide "[1] Continue" and "[2] Choose another book" two options for the user to choose, if the user Enter non-numeric characters, and the system will output "Please enter numbers only" and ask the user to enter the command again. If the user enters the option "1", the system will automatically jump to the delete book information interface, and the user will select and enter the book code of the book to be deleted again. If the user enters option "2", the system will perform a delete action and output "You have successfully delete the record!" Indicates that the system has finished deleting the book material, and the user can press any key to return to the administrator interface.

**[3] Find book in database:** When the user enters the option "3 " to execute the search book function, the system will jump to the search book interface, and after entering the interface, 3 options will appear for the user to choose, respectively "[1] Search by book title" , "[2] Search by author name" and "[3] Return to last page", which corresponds to searching by book title, searching by author name, and returning to the previous page. The user can perform the corresponding function by entering the number corresponding to the option ( [1] , [2] , [3] ).

[1] Search by book title: When the user enters option "1" to perform a search based on book title, the system will output "Please enter the book." title: " Indicates that the user enters the title of the book they wish to retrieve. This function supports fuzzy retrieval, does not require the user to enter the full name of the book, only enter part of the name can also output the corresponding book, but you need to pay attention to the case of the letters, otherwise it will cause output errors. If the user does not enter any information to search, the system will output "Do not leave input blank!!" Signal the user to enter the information again, if there is no suitable book in the library, the system will output "No results found, please check to see if you have enter the correct spelling" and ask the user to enter the information again. If there are books in the library that match the information entered by the user, the information of the books (book code, title, author name, international book number, book publisher, location of the book, number of books) will be output according to the order of the book code. The user can press any key to continue and return to the search book interface.

[2] Search by author name: When the user enters option "2" to perform a search based on author name, the system will output "Please enter the name." of the Author: " Indicates that the user enters the author name of the book they wish to retrieve. This function supports fuzzy retrieval, does not require the user to enter the full name of the author, only the last name or part of the name can also output the corresponding book, but you need to pay attention to the case of the letters, otherwise it will cause output errors. If the user does not enter any information to search, the system will output "Do not leave input blank!!" Signal the user to enter the information again, if there is no suitable book in the library, the system will output "No results found, please check to see if you have enter the correct spelling" and ask the user to enter the information again. If there are books in the library that match the information entered by the user, the information of the books (book code, title, author name, international book number, book publisher, location of the book, number of books) will be output according to the order of the book code. The user can press any key to continue and return to the search book interface.

[3] Return to last page: When the user enters option "3" to perform the Return to Previous Page function, the system immediately jumps to the administrator interface.

Other inputs: If the user enters characters that are not numeric, the system will output "Please enter numbers only" and ask the user to enter the command again. If the user enters a command number other than 1, 2, 3 that is not specified, the system will output "Command Error!!" Please enter again" and ask the user to enter the command again.

**[4] Edit book in database:** When the user enters option "4" to perform the change book information function, the system will jump to change 1 Book information interface, when you first enter the interface, the system will provide the book information in the book library and the corresponding book code (Book Code) of the book. The system will output the information of the book (title, author's name, international book number, book publisher, book location, number of books) in order according to the book's book code. The system also outputs "Please enter the Book Code of the book you wish to delete:" below to signal the user to enter the book code to change the book information, if so If the user enters non-numeric characters, the system will output "Please enter numbers only" and ask the user to enter the book code again; If the user enters a book code without a corresponding book, the system will output "Please enter valid input!" And ask the user to enter the book code again. When the user enters a valid book code, the system will display the book information corresponding to the entered book code and output "Please enter the variables u wish to change:" to confirm the book information to the user whether to change. The system has 6 options for users to choose from: "[1] Book Title" and "[2]. Author” ， “[3] ISBN” ， “[4] Publisher” ， "[5] Location" and "[6] Number of Books" correspond to the title of the book and the name of the author, respectively International book number, book publisher, location of the book, number of collections. The user is able to enter the number corresponding to the option ( [1], [2], [3], [ 4] , [5] , [ 6] ) to perform the corresponding function.

[1] Book Title: When the user enters option "1" to perform the change of book title, the system will output "Input new data!" and "Please enter Book Title:" to indicate that the user enters a new book title, and if the user does not enter any information to search, the system will output it" Do not leave input blank!! Signal the user to enter the information again. After the user finishes typing, the system outputs "You have successfully changed the record!." " indicates that the modification of the information has been completed, and the user can press any key to return to the administrator interface.

[2] Author: When the user enters option "2" to perform the change author name function, the system will output "Input new data!" and "Please enter the Author of the Book:" to signal the user to enter a new author name. If the user does not enter any information to search, the system will output "Do not leave input blank!!" Signal the user to enter the information again. After the user finishes typing, the system outputs "You have successfully changed the record!." Indicates that the modification of the information has been completed, and the user can press any key to return to the administrator interface.

[3] ISBN: When the user enters option "3" to perform the change book international book number function, the system will output "Input new data!" and "Please enter the ISBN code of the Book:"" to signal the user to enter a new ISBN If the user does not enter any information to search, the system will output "Do not leave input blank!!" Signal the user to enter the information again. After successful input, the system will output "You have successfully changed the record!" Indicates that the modification of the data has been completed, and the user can press any key to return to the administrator interface.

[4] Publisher: When the user enters option "4" to perform the change book publishing house, the system will output "Input new data!" and "Please enter the publisher of the book:" to signal the user to enter the name of the new publisher If the user does not enter any information to search, the system will output "Do not leave input blank!!" Signal the user to enter the information again. After the user finishes typing, the system outputs "You have successfully changed the record!." " indicates that the modification of the information has been completed, and the user can press any key to return to the administrator interface.

[5] Location: When the user enters option "5" to perform the change book location function, the system will output "Input new data!" and "Please enter the location of the book:" to signal the user to enter a new location if the user has not entered any information to search , the system will output "Do not leave input blank!!." Signal the user to enter the information again. After the user finishes typing, the system outputs "You have successfully changed the record!." " indicates that the modification of the information has been completed, and the user can press any key to return to the administrator interface.

[6] Number of Books: When the user enters option "6" to perform the change of the number of books, the system will output "Input new data!" and "Please enter the no. of books on shelf:" to signal the user to enter the number of new books, if the user If you enter a non-numeric character, the system will output "Please enter numbers only" and ask the user to enter the new number of books again. If the user enters characters with numbers less than zero, the system will output "Please enter valid input!" Users are asked to enter the new number of books again. After the user finishes typing, the system outputs "You have successfully changed the record!." Indicates that the modification of the information has been completed, and the user can press any key to return to the administrator interface

Other inputs: If the user enters characters that are not numeric, the system will output "Please enter numbers only" and ask the user to enter the command again. If the user enters a command number other than 1, 2, 3, 4, 5, 6) that is not specified, the system will output "Please enter" valid input! And ask the user to enter the command again.

**[5] Create User:** When the user enters the option "5" to perform the function of registering user books, the system will jump to the registration user interface When you first enter the interface, the system will provide the user information in the user library and the user code corresponding to the user ）。 The system will output the user's information (user name, user ID number, user password) in order according to the user's user code , the number of books borrowed). The system also outputs "Please enter the Student ID of the user:" below to signal the user to enter the user ID number of the user to be registered. The user should then follow the command "Please enter User name:"," "Please" output by the system Enter password of the user:", enter the name and password of the new user. If you enter your name and password without any characters, the system will output "Please enter an input!" Signal the user to enter the information again. Please note that the input of the student ID number must be a number, if the user enters a non-numeric character, the system will output "Please enter numbers only." and ask the user to enter the information again; If the user enters a number other than 10 digits when entering the student ID number, the system will output "The student ID is a 10-digit number!" And ask the user to enter the student ID number again. After everything is entered, the system displays "You have successfully added the user!" Signal the system to complete the user registration, and the user can press any key to return to the manager interface.

**[6] Search User:** When the user enters option "6" to execute the search user function, the system will jump to the query administrator interface, and after entering the interface, the screen will appear 3 options for the user to choose, respectively "[1] Search by id" , "[2] Search by name" and "[3] Return to last page", which corresponds to searching by student ID number, searching by user name, and returning to the previous page. The user can perform the corresponding function by entering the number corresponding to the option ( [1] , [2] , [3] ).

[1] Search by id: When the user enters option "1" to perform the search function based on student ID number, the system will output "Please enter the student ID of the user:" The user enters the student ID number they wish to retrieve. If there is no suitable user profile in the library, the system will output "No such user, please input valid user student ID:" and ask the user to enter the information again. If there are users in the library that match the information entered by the user, the user's information (user code, user name, user ID number, user password, number of books borrowed) and borrowing records (book title, borrowing date, etc.) will be output Return date). The user can press any key to continue and return to the query user interface.

[2] Search by author name: When the user enters option "2" to perform a search based on the user's name, the system will output "Please enter the name of the user." :" Indicates that the user enters the name of the user whose name they want to retrieve. This function supports fuzzy retrieval, does not require the user to enter the user's full name, only the last name or part of the name can also output the corresponding user, but you need to pay attention to the case of the letters, otherwise it will cause output errors. If the user does not enter any information for query, the system will output "Do not leave input blank!!" " Signal the user to enter the information again, if there is no suitable user profile in the user database, the system will output " No results found, please check to see if you have enter the correct spelling" and ask the user to enter the information again. If there are users in the library that match the information entered by the user, the user's information (user code, user name, user ID number, user password, number of books borrowed) and borrowing records (book title, borrowing date, return date) will be output according to the user code order. The user can press any key to continue and return to the query administrator interface.

[3] Return to last page: When the user enters option "3" to perform the Return to Previous Page function, the system immediately jumps to the administrator interface.

**Other** inputs: If the user enters characters that are not numeric, the system will output "Please enter numbers only" and ask the user to enter the command again. If the user enters a command number other than 1, 2, 3 that is not specified, the system will output "Command Error!!" Please enter again" and ask the user to enter the command again.

**[7] Edit user:** When the user enters option "7" to execute the change user profile function, the system will immediately jump to the change user profile interface, when entering the interface, the system will provide the user information in the user library and the user code (User) corresponding to the user Code）。 The system will output the user's information (user name, user ID number, user password, number of books borrowed) in order according to the user's user code. The system also outputs "Please enter the user Code of the book you wish to delete:" below to indicate that the user input is to be changed The user code of the user profile, if the user enters a character that is not a number, the system will output "Please enter numbers only." and ask the user to enter the user code again; If the user enters a book code that does not have a corresponding book, the system will output "Please enter the correct user code " and ask the user to enter the user code again. When the user enters a valid book code, the system will display the book information corresponding to the input book code and output "Please enter the variables u wish to change:" to confirm to the user Book material that needs to be changed. The system has 4 options for users to choose from, which are "[1] Student ID" and " [2] Student Name", "[3] Password" and "[4] Number of books borrowed" corresponds to changing the student ID card number, user name, user password and number of books borrowed, respectively. The user can enter the corresponding number ( [1], [2], [3] , [ 4] by entering the corresponding number of the option ]) to perform the corresponding function.

[1] Student id: When the user enters option "1" to perform the change of student ID number, the system will output "Input new data!" " and "Please enter the Student ID of the User:" indicate that the user enters a new user name, note that the student ID number must be entered as a number, if the user If you enter non-numeric characters, the system will output "Please enter numbers only" and ask the user to enter the data again, if any If the user enters a number less than 10 digits when entering the student ID number, the system will output "The student ID is a 10-digit number!" And ask the user to enter the student ID number again. After entering the appropriate student ID number, the system will output "You have successfully changed the profile of the user!" Indicates that the system has completed changing the student ID number, and the user can press any key to return to the administrator interface.

[2] Student Name : When the user enters option "2" to perform the change user name function, the system will output "Input new data!" " and "Please enter User name:" indicate that the user enters a new user name, and the system will output "You have." successfully changed the profile of the user！ Indicates that the system has completed changing the user's name and that the user can press any key to return to the administrator interface.

[3] Password : When the user enters option "2" to perform the change user password function, the system will output "Input new data!" " and "Please enter the password of the User:" indicate that the user enters a new password, and the system will output "You have." successfully changed the profile of the user！ Indicates that the system has completed changing the user's name and that the user can press any key to return to the administrator interface.

[4] Number of books borrowed: When the user enters option "4" to change the number of books borrowed, the system will output "Input new data!" and "Please enter the no. of books borrowed by the User:" to indicate that the user enters the number of newly borrowed books, noting that the input of the number of borrowed books must be numeric, if If the user enters a character that is not a number, the system will output "Please enter numbers only" and ask the user If the user enters a number less than zero when entering the number of books borrowed, the system will output "Please enter a valid value" The user is asked to enter the information again. After the user enters the appropriate number of books to borrow, the system will output "You have successfully changed the profile of the user." ！ Indicates that the system has completed changing the student ID number, and the user can press any key to return to the administrator interface.

**Other inputs:** If the user enters characters that are not numeric, the system will output "Please enter numbers only" and ask the user to enter the command again. If the user enters a command number other than 1, 2, 3, 4) that is not specified, the system will output "Command Error! Please enter again！ And ask the user to enter the command again.

**[8] Logout System** **:** When the user enters option "8" to perform the logout system function, the system will output "Logging out.... Indicates that the system is logging out of the system and jumps to the main interface after the user presses any key.

**[9] Exit System** **:** When the user enters option "9" to perform the exit system function, the system will output "Thank you for using this system----exiting system" Indicates that the system is exiting the system and can exit the system after the user presses any key twice.