1. Implement a Queue using a linked list. Provide functions to enqueue, dequeue, and display the elements in the queue.
2. Create a program to manage a library using a doubly linked list. Each book in the library has a title, author, and ISBN. Implement functions to add a new book, display all books, and remove a book by ISBN.
3. Implement a hash table to store student records. Each record contains a student ID, name, and GPA. Include functions to insert a new record, search for a record by ID, and delete a record by ID. Handle collisions appropriately.
4. Develop a program to simulate a simple file system using a tree data structure. Each node in the tree represents a directory and can have subdirectories and files. Implement functions to add a new file, create a new directory, list all files in a directory, and delete a file or directory.
5. Develop a program to manage a priority queue using a binary heap. The program should support operations such as enqueue, dequeue, and display the elements in priority order. Each element in the priority queue has a priority level.
6. Design a program to simulate a simple banking system using a linked list. Each node in the list represents an account with attributes such as account number, account holder name, and balance. Implement functions to create a new account, perform a transaction (deposit or withdraw), and display account details.