N.B.K.R. Institute of Science and Technology

BANKING SYSTEM USING DATA STRUCTURES

Our Team

- M.THILAK
- P.PRAPUL KUMAR
- P.KARTHIK
- M. RAVANTH

About The Program

A banking system implemented in C using data structures provides an efficient and organized way to manage financial accounts and transactions. The program utilizes several fundamental data structures to achieve its functionality, including structures for storing account information, linked lists for dynamic account management, and stacks for maintaining transaction histories. The account structure serves as the foundation, containing essential details like account numbers, customer names, user IDs, passwords, and balances.

About The Program

Structures (struct) - Used to create custom data types (Account, Transaction, Node)

Linked List - Dynamic data structure for storing accounts (Node with next pointer)

Stack - LIFO structure for transaction history (TransactionStack with items array and top pointer

Main Info

- AIM- Creating a Banking System Program using C Data Structures
- Source code- https://github.com/prapulkumar2007/banking-system/blob/e4f0f6c7c85a43d8765d053d0c4f8b6b8f5ea200/banking%20system

Output

```
*** ENHANCED BANKING SYSTEM WITH LOGIN ***

    Login

Create New Account
Exit
Enter your choice: 2
--- Account Creation ---
Enter account number: 9908704629
Enter account holder name: prapulkumar
Choose a user ID: prapul1
Choose a password (min 8 chars, at least 1 letter and 1 number): prapulkumar2007
Enter initial deposit amount: 35000
Account created successfully!
```

Conclusion

This banking system program successfully demonstrates how core data structures (structures, linked lists, and stacks) can be applied to build a functional, organized, and efficient financial management system in C. By simulating real-world banking operations—such as account creation, authentication, deposits, withdrawals, and transaction tracking—the program highlights the practical use of data structures in software development.

THANK YOU ECE-F