

JavaScript Assignment

Console Banking Application (Without Classes)

Objective

Create a Console-Based Banking System using JavaScript (Node.js) without using classes, readline, database, or external libraries. The application must run automatically using: node index.js

Level 1 – Single Account Banking

- Create an account object with accountNumber, name, balance, transactions.
- Implement functions: deposit, withdraw, checkBalance.
- Deposit must be greater than 0.
- Withdrawal must not exceed balance.
- Record all transactions inside transactions array.

Level 2 – Multi Account Banking

- Create bank object with bankName, accounts array, nextAccountNumber.
- Implement functions: createAccount, findAccount, deposit, withdraw, transfer.
- Auto-generate account numbers.
- Prevent transfer if account does not exist or insufficient balance.
- Implement showAllAccounts function.

Level 3 – Advanced Banking Logic

- Maintain transaction history for each account.
- Support account types: savings and current.
- Savings: minimum balance 1000 and 4% yearly interest.
- Current: no minimum balance and no interest.
- Implement loan feature with maximum loan = 5 times balance.
- Implement bank summary functions: total balance and total loans.

Evaluation Criteria

Criteria	Marks
Logic Correctness	30
Validation Handling	25
Function Design	20
Transaction Tracking	15
Clean Console Output	10

Submission Requirements

- Submit index.js file.
- Properly commented code.
- Clear console output when running node index.js.