

## TDC FullStack Assignment No. 6

Assignment: Bank Account Management System

Objective:

Create a system to manage bank accounts using JavaScript classes. The system should allow account creation, deposits, withdrawals, and transfers between accounts while ensuring all operations follow the given rules.

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Requirements:

1. Data Storage:

Create an empty array named `accounts` to store all bank accounts.

2. Bank Account Class:

Create a class `BankAccount` that should have the following properties:

`accountNumber`: A string that must start with "IN" and be exactly 12 characters long.

`balance`: Initial balance with a minimum limit of ₹1000.

The class should include methods:

`deposit(amount)`: Adds money to the account.

`withdraw(amount)`: Withdraws money while ensuring the minimum balance limit is maintained.

`transfer(amount, targetAccountNumber)`: Transfers money to another account in the array while validating sufficient funds.

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3. Account Creation Function:

Write a function `createAccount(accountNumber, initialAmount)` that:

Ensures the `accountNumber` starts with "IN" and is 12 characters long.

Ensures `initialAmount` is at least ₹1000.

If valid, creates an instance of `BankAccount` and adds it to the `accounts` array.

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#### 4. Transactions:

Implement deposit, withdraw, and transfer functionalities.

Ensure proper validation before performing any transaction.

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#### Example Usage:

```
// Creating accounts
createAccount("IN1234567890", 5000);
createAccount("IN0987654321", 3000);

// Depositing money
accounts[0].deposit(2000);

// Withdrawing money
accounts[1].withdraw(500);

// Transferring money
accounts[0].transfer(1000, "IN0987654321");
```

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#### Bonus Challenge:

Display Account Details: Implement a function to print details of all accounts.

Handle Errors Properly: Display meaningful messages if transactions fail.

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