

Mini Banking System - C++ Code

```
#include <iostream>
#include <fstream>
#include <string>
using namespace std;

class BankAccount {
private:
    int accountNumber;
    string name;
    double balance;
    string pin;

public:
    void createAccount() {
        cout << "Enter Account Number: ";
        cin >> accountNumber;
        cout << "Enter Name: ";
        cin.ignore();
        getline(cin, name);
        cout << "Set 4-digit PIN: ";
        cin >> pin;
        cout << "Enter Initial Deposit: ";
        cin >> balance;

        ofstream file("accounts.txt", ios::app);
        file << accountNumber << " " << name << " " << pin << " " << balance << endl;
        file.close();

        cout << "Account Created Successfully!\n";
    }

    void displayAccount(int accNo, string enteredPin) {
        ifstream file("accounts.txt");
        int acc;
        string nm, p;
        double bal;
        bool found = false;

        while (file >> acc >> nm >> p >> bal) {
            if (acc == accNo && p == enteredPin) {
                cout << "Account Number: " << acc << endl;
                cout << "Name: " << nm << endl;
                cout << "Balance: " << bal << endl;
                found = true;
                break;
            }
        }
        file.close();

        if (!found)
            cout << "Invalid Account Number or PIN!\n";
    };
}

int main() {
    BankAccount account;
    int choice, accNo;
    string pin;

    do {
        cout << "\n--- Mini Banking System ---\n";
        cout << "1. Create Account\n";
        cout << "2. View Account\n";
        cout << "3. Exit\n";
        cout << "Enter Your Choice: ";
        cin >> choice;

        switch (choice) {
            case 1:
                account.createAccount();
                break;
            case 2:
                cout << "Enter Account Number: ";
                cin >> accNo;
                cout << "Enter PIN: ";
                cin >> pin;
                account.displayAccount(accNo, pin);
                break;
            case 3:
                cout << "Thank you for using the Mini Banking System!\n";
                exit(0);
            default:
                cout << "Invalid Choice! Please Try Again.\n";
        }
    } while (choice != 3);
}
```

```
cout << "3. Exit\n";
cout << "Enter choice: ";
cin >> choice;

switch (choice) {
    case 1:
        account.createAccount();
        break;
    case 2:
        cout << "Enter Account Number: ";
        cin >> accNo;
        cout << "Enter PIN: ";
        cin >> pin;
        account.displayAccount(accNo, pin);
        break;
    case 3:
        cout << "Thank you for using the system!\n";
        break;
    default:
        cout << "Invalid choice!\n";
}
} while (choice != 3);

return 0;
}
```