

```
#include <iostream>
```

```
using namespace std;
```

```
class Account {  
    private:  
        string accnom;  
        string name;  
        string email;  
        int phonenom;  
        double balance;
```

```
    public:
```

```
    void OpenAcct(){  
        cout << "Create an Account Number: " ;  
        cin >> accnom ;  
        cout << "Enter client Name: " ;  
        cin >> name ;  
        cout << "Enter client email: " ;  
        cin >> email ;  
        cout << "Enter phone number: " ;  
        cin >> phonenom ;  
        cout << "Enter initial deposit amount: $" ;  
        cin >> balance ;  
        cout << "Successfully registered user" << endl ;  
    }
```

```
    void ShowAcctInfo(){  
        cout << "Account Number: " << accnom << endl ;  
        cout << "Name: " << name << endl ;  
        cout << "Email: " << email << endl ;  
        cout << "Phone number: " << phonenom << endl ;  
        cout << "Account balance: $" << balance << endl ;  
    }
```

```
    void ShowAcctBalance(){  
  
        cout << "Account balance: $" << balance << endl ;  
    }
```

```
    void Deposit(){
```

```

        double dwAmt;
        cout << "Enter deposit amount: $" ;
        cin >> dwAmt ;
        balance = balance + dwAmt;
        cout << "Current balance: $" << balance << endl;

    }

void Withdrawal(){
    double dwAmt;
    cout << "Enter withdrawal amount: $" ;
    cin >> dwAmt ;
    if(dwAmt <= balance){
        balance = balance - dwAmt;
        cout << "Current balance: $" << balance << endl;
    }
    else{
        cout << "Insufficient funds...";
    }
}

void SearchAcct(bool);

bool SearchAcct(string s){
    if (accnom == s) {
        //ShowAcctInfo();
        return true;
    }
    return false;
}

};

int main()
{

    Account B[5];
    int findAcct, choice, anum, j, i = 0, option = 1;

    string s;

    cout << "\nWelcome to Bank of Coders!" << endl;

```

```

while(option != 0) {
    cout << "\nMain Menu\n";
    cout << "1. Create new account \n" ;
    cout << "2. Show account information\n" ;
    cout << "3. Show account balance \n" ;
    cout << "4. Deposit \n" ;
    cout << "5. Withdraw\n" ;
    cout << "Please enter an option from the menu here: ";
    cin >> choice;

    if(choice == 1){
        B[i].OpenAcct();
        i++;
    }

    if(choice == 2){ //Show account info
        std::cout << "Enter account number: " ;
        cin >> s;
        for (int j = 0; j <= (i-1); j++) {
            findAcct = B[j].SearchAcct(s);
            if(findAcct){

                B[j].ShowAcctInfo();
                break;
            }
        }
        if(!findAcct){
            std::cout << "Account not found..." << std::endl;
        }
    }

    if(choice == 3){ // show account balance
        std::cout << "Enter account number: " ;
        cin >> s;
        for (int j = 0; j <= (i-1); j++) {
            findAcct = B[j].SearchAcct(s);
            if(findAcct){

                B[j].ShowAcctBalance();
                break;
            }
        }
        if(!findAcct){
            std::cout << "Account not found..." << std::endl;
        }
    }
}

```

```

    }

}

if(choice == 4){ // deposit into account
    std::cout << "Enter account number: " << std::endl;
    cin >> s;
    for (int j = 0; j <= (i-1); j++) {
        findAcct = B[j].SearchAcct(s);
        if(findAcct){

            B[j].Deposit();
            break;
        }
    }
    if(!findAcct){
        cout << "Account not found..." << endl;
    }

}

if(choice == 5){ // withdraw from account
    std::cout << "Enter account number: " << std::endl;
    cin >> s;
    for (int j = 0; j <= (i-1); j++) {
        findAcct = B[j].SearchAcct(s);
        if(findAcct){

            B[j].Withdrawal();
            break;
        }
    }
    if(!findAcct){

        cout << "Account not found..." << endl;
    }

}

cout << "Press 1 to continue 0 to exit" << endl;
cin >> option;
}
return 0;
}

```