

Assignment-1

Name - Sahil Badve

PRN - B24CE1114

Div - S.Y.B-Tech - 2

Batch - C

```
#include <iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
class bank_account {  
private:
```

```
    string name;
```

```
    string type;
```

```
    int account_no;
```

```
    float balance;
```

```
public:
```

```
    bank_account(string n, string at, int anum, float b) {
```

```
        name = n;
```

```
        type = at;
```

```
        account_no = anum;
```

```
        balance = b;
```

```
    }
```

```
    void display();
```

```
    void deposit();
```

```
    void withdraw();
```

```
};
```

```
void bank_account::display() {
```

```
    cout << "\n--- Account Details ---" << endl;
```

```
    cout << "Name: " << name << endl;
```

```

    cout << "Account Type: " << type << endl;
    cout << "Account Number: " << account_no << endl;
    cout << "Balance: " << balance << endl;
    cout << "-----" << endl;
}

```

```

void bank_account::deposit() {
    float dep_amt;
    cout << "\nEnter amount to deposit: ";
    cin >> dep_amt;

    if (dep_amt > 0) {
        balance += dep_amt;
        cout << "Deposit successful!" << endl;
    } else {
        cout << "Invalid deposit amount. Please enter a positive value." << endl;
    }
}

```

```

void bank_account::withdraw() {
    float withd_amt;
    cout << "\nEnter amount to withdraw: ";
    cin >> withd_amt;

    if (withd_amt > 0 && withd_amt <= balance) {
        balance -= withd_amt;
        cout << "Withdrawal successful!" << endl;
    } else if (withd_amt <= 0) {
        cout << "Invalid withdrawal amount. Please enter a positive value." << endl;
    } else {
        cout << "Insufficient balance. Cannot withdraw" << withd_amt << "." << endl;
    }
}

```

```

int main() {
    int choice;

    string name1, acc_type;
    int acc_num;
    float bal;

```

```
cout << "--- Bank Account ---" << endl;
cout << "Enter name: ";

cin.ignore();
getline(cin, name1);

cout << "Enter account type (e.g., Savings, Current): ";
getline(cin, acc_type);

cout << "Enter account number: ";
cin >> acc_num;

cout << "Enter balance: ";
cin >> bal;

bank_account obj2(name1, acc_type, acc_num, bal);

obj2.display();

do {
    cout << "\n--- Bank Menu ---" << endl;
    cout << "1. Display Account Information" << endl;
    cout << "2. Deposit" << endl;
    cout << "3. Withdraw" << endl;
    cout << "4. Exit" << endl;
    cout << "Enter your choice: ";
    cin >> choice;

    switch (choice) {
        case 1: {
            obj2.display();
            break;
        }
        case 2: {
            obj2.deposit();
            obj2.display();
            break;
        }
        case 3: {
            obj2.withdraw();
            obj2.display();
            break;
        }
    }
}
```

```

    }
    case 4: {
        cout << "Exiting bank application. Goodbye!" << endl;
        break;
    }
    default: {
        cout << "Invalid choice. Please try again." << endl;
        break;
    }
}
} while (choice != 4);
return 0;
}

```

OUTPUT:-

--- Bank Account ---

Enter name: abc

Enter account type (e.g., Savings, Current): savings

Enter account number: 12345

Enter balance: 1200

--- Account Details ---

Name: bc

Account Type: savings

Account Number: 12345

Balance: 1200

--- Bank Menu ---

1. Display Account Information

2. Deposit

3. Withdraw

4. Exit

Enter your choice: 1

--- Account Details ---

Name: bc

Account Type: savings

Account Number: 12345

Balance: 1200

--- Bank Menu ---

1. Display Account Information
2. Deposit
3. Withdraw
4. Exit

Enter your choice: 2

Enter amount to deposit: 50

Deposit successful!

--- Account Details ---

Name: bc

Account Type: savings

Account Number: 12345

Balance: 1250

--- Bank Menu ---

1. Display Account Information
2. Deposit
3. Withdraw
4. Exit

Enter your choice: 3

Enter amount to withdraw: 20

Withdrawal successful!

--- Account Details ---

Name: bc

Account Type: savings

Account Number: 12345

Balance: 1230

--- Bank Menu ---

1. Display Account Information
2. Deposit
3. Withdraw
4. Exit

Enter your choice: 4

Exiting bank application. Goodbye!

