

Question: Multiple Bank Accounts (Interface) Create an interface BankAccount with methods deposit() and withdraw(). Implement classes SavingsAccount and CurrentAccount, where withdrawal rules are different.

Bank_Acc:

```
package HW;

public interface Bank_Acc {

    void deposit(double amount);
    void withdraw(double amount);
}
```

SavinngACC:

```
package HW;
import java.util.*;
public class SavinngACC implements Bank_Acc{

    private double balance;
    private static double minimum = 500;

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        SavinngACC sav = new SavinngACC();

        while (true) {
            System.out.println("1. Deposit");
            System.out.println("2. Withdraw");
            System.out.println("3. Check Balance");
            System.out.println("4. Exit");
            System.out.print("Enter choice: ");
            int choice = s.nextInt();

            if (choice == 1) {
                System.out.print("Enter amount: ");
                double amount = s.nextDouble();
                sav.deposit(amount);
            } else if (choice == 2) {
                System.out.print("Enter amount: ");
                double amount = s.nextDouble();
                sav.withdraw(amount);
            } else if (choice == 3) {
                System.out.println("Total Balance:" + sav.balance);
            } else if (choice == 4) {
                System.out.println("Exiting.");
                break;
            }
        }
    }

    @Override
    public void deposit(double amount)
    {
        balance =balance + amount;
        System.out.println("You Have Deposited: " + amount + ". Total Balance: " + balance);
    }

    @Override
    public void withdraw(double amount)
    {
        if (balance - amount >= minimum) {
```

```

        balance = balance - amount;
        System.out.println("You have withdrawn: " + amount + ". Total Balance: " + balance);
    } else {
        System.out.println("Cannot Withdraws below minimum balance. ");
    }
}
}
}

```

CurrentACC:

```

package HW;

import java.util.Scanner;

public class CurrentACC implements Bank_Acc{

    private double balance;
    private static final double OD_limit = 5000;

    public static void main(String[] args) {

        Scanner s = new Scanner(System.in);
        CurrentACC sav = new CurrentACC();

        while (true) {
            System.out.println("1. Deposit");
            System.out.println("2. Withdraw");
            System.out.println("3. Check Balance");
            System.out.println("4. Exit");
            System.out.print("Enter choice: ");
            int choice = s.nextInt();

            if (choice == 1) {
                System.out.print("Enter amount: ");
                double amount = s.nextDouble();
                sav.deposit(amount);
            } else if (choice == 2) {
                System.out.print("Enter amount: ");
                double amount = s.nextDouble();
                sav.withdraw(amount);
            } else if (choice == 3) {
                System.out.println("Total Balance:" + sav.balance);
            } else if (choice == 4) {
                System.out.println("Exiting.");
                break;
            }
        }
    }

    @Override
    public void deposit(double amount) {
        balance = balance + amount;
        System.out.println("You Have Deposited: " + amount + ". Total Balance: " + balance);
    }

    @Override
    public void withdraw(double amount) {
        if (balance - amount >= OD_limit) {
            System.out.println("Cannot Withdraws below Overdraft limit. ");
        } else {

```

```

        balance = balance - amount;
        System.out.println("You have withdrawn: " + amount + ". Total Balance: " +
balance);
    }

}
}

```

Output Saving Account:

```

1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter choice: 1
Enter amount: 700
You Have Deposited: 700.0. Total Balance: 700.0
1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter choice: 3
Total Balance:700.0
1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter choice: 2
Enter amount: 200
You have withdrawn: 200.0. Total Balance: 500.0
1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter choice: 2
Enter amount: 100
Cannot Withdraws below minimum balance.
1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter choice: 4
Exiting.

```

Output Current Acc:

```

1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter choice: 1
Enter amount: 12000
You Have Deposited: 12000.0. Total Balance: 12000.0
1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter choice: 3
Total Balance:12000.0
1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter choice: 2
Enter amount: 6000
You have withdrawn: 6000.0. Total Balance: 6000.0
1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter choice: 2
Enter amount: 2000
Cannot Withdraws below Overdraft limit.
1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter choice: 4
Exiting.

```