

```

package oops.inherit;

public class Account {
    protected double balance;

    public Account() {
        this.balance = 0;
    }
    public void deposit(double amount) {
        balance += amount;
    }
    public void withdraw(double amount) {
        if (amount <= balance) {
            balance -= amount;
        } else {
            System.out.println("Insufficient balance!");
        }
    }
    public double getBalance() {
        return balance;
    }
}

package oops.inherit;

class SavingAccount extends Account {
    private static final double INTEREST_RATE = 7;

    public void calculateInterest() {
        double interest = balance * INTEREST_RATE / 100;
        balance += interest;
    }
}

package oops.inherit;

class CheckingAccount extends Account {
    private static final double FEE_PER_10000 = 5;

    @Override
    public void withdraw(double amount) {
        if (amount > 50000) {
            int numThousand = (int) (amount / 10000);
            double fee = numThousand * FEE_PER_10000;
            balance -= fee;
        }
        super.withdraw(amount);
    }
}

package oops.inherit;
import java.util.Scanner;
public class Bankings {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Account: Saving Account");
        SavingAccount savingAccount = new SavingAccount();
    }
}

```

```

System.out.println("Balance: " + savingAccount.getBalance());

int choice;

do {
    System.out.println("\nSelect the Option:");
    System.out.println("1. Deposit");
    System.out.println("2. Withdraw");
    System.out.println("3. Exit");

    choice = scanner.nextInt();

    switch (choice) {
        case 1:
            System.out.print("Deposit: ");
            double depositAmount = scanner.nextDouble();
            savingAccount.deposit(depositAmount);
            System.out.println("Balance: " + savingAccount.getBalance());
            break;

        case 2:
            System.out.print("withdrawal amount: ");
            double withdrawalAmount = scanner.nextDouble();
            savingAccount.withdraw(withdrawalAmount);
            System.out.println("Balance: " + savingAccount.getBalance());
            break;

        case 3:
            System.out.println("Exiting ");
            break;

        default:
            System.out.println("Invalid chaoice!");
            break;
    }

    } while(choice != 3);
    // Calculate and print interest for Saving Account
    savingAccount.calculateInterest();
    System.out.println("AccountBalance after interest: " +
savingAccount.getBalance());

    scanner.close();
}

```

Account: Savings Account

Balance: 0.0

Select the option:

1. Deposit 2. Withdraw

3. Exit

1

Deposit: 50000

Balance: 50000.0

Select the option:

1. Deposit
2. Withdraw
3. Exit

2

Withdrawal amount: 10000

Balance: 40000.0

Select the option:

1. Deposit
2. Withdraw
3. Exit

3

Exiting...

Account Balance after interest: 42800.0