Bank

```
import java.util.Scanner;
class Account {
  String customerName;
  int accountNumber;
  String accountType;
  float balance;
Account (String customerName, int accountNumber,
                                    String accountType) {
    this.customerName = customerName;
    this.accountNumber = accountNumber;
    this.accountType = accountType;
    this.balance = 0.0;
  }

public void displayBalance() {
    System.out.println(" Account Balance: $"+balance);
  }
void withdrawal (float amount) {
if (balance >= amount) {
    balance = balance - amount;
  System.out.println("withdrawal of $" + amount +
                                    "successful");
}
else {
  System.out.println(" Invalid balance");
}
}
}
```

```
class SavAcct extends Account {
    float interest;
    float interestRate;
    public SavAcct(String customerName, int accountNumber) {
        super(customerName, accountNumber, "Saving");
        this.interestRate = 0.05;
    }

    void computeInterest() {
        double interest = balance * interestRate;
        deposit(interest);
        System.out.println("Interest of $" + interest + " deposited");
    }

    void deposit(float amount) {
        balance = balance + amount;
        System.out.println("Deposit of $" + amount + " successful");
    }
}

class CurAcc extends Account {
    float minBalance;
    float serviceCharge;
    public CurAcc(String customerName, int accountNumber) {
        super(customerName, accountNumber, "Current");
        this.minBalance = 1000.0;
        this.serviceCharge = 50.0;
    }

    public void displayBalance() {
        super.displayBalance();
```

```
if (balance < minBalance) {
    System.out.println("Service charge of $" + serviceCharge
                       + " imposed due to low balance");
    balance = balance - serviceCharge;
    System.out.println("Penalty charged");
}
}
}
public class Bank {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        SavAcct savingsAccount = new SavAcct("Alice", 100);
        CurAcc currentAccount = new CurAcc("Bob", 200);
        savingsAccount.deposit(500);
        savingsAccount.computeInterest();
        savingsAccount.displayBalance();
        System.out.println("Enter amount to withdraw
                           from current account:");
        float withdrawAmount = scanner.nextFloat();
        currentAccount.withdraw(withdrawAmount);
        currentAccount.displayBalance();
        System.out.println("Enter amount to withdraw
                           from saving account:");
        float withdrawAmountSavings = scanner.nextFloat();
        savingsAccount.withdraw(withdrawAmountSavings);
        savingsAccount.displayBalance();
        scanner.close();
    }
```

Output :-

Output →

500 is deposited successfully.

Balance → 525

Enter amount to withdraw from the account

125

Balance → 400