

```
import java.util.*;  
import java.lang.*;
```

```
class Account {
```

```
    String name, abc;
```

```
    int accNo;
```

```
    char accType;
```

```
    double bal=0;
```

```
    double deposit;
```

```
    Scanner in = new Scanner(System.in);
```

```
    void input data() {
```

```
        System.out.println("Enter your acc type:");
```

```
        abc = in.nextLine();
```

```
        accType = abc.charAt(0);
```

```
    }
```

```
    void deposit() {
```

```
        System.out.println("Enter an amt to  
        deposit:");
```

```
        deposit = in.nextDouble();
```

```
        bal = bal + deposit;
```

```
        System.out.println("Balance  
        updated");
```

```
    }
```

```
void viewBalance() {  
    System.out.println("Balance = " + bal);  
}
```

```
public static void main (String [] args) {  
    Scanner s = new Scanner (System.in);  
    int x;  
    Account a1 = new Account();  
    a1.inputData();  
  
    if (a1.acc a1.accountType == 'C') a1.accountType = 'C';  
    Current a2 = new Current();  
    do {  
        System.out.println(" WELCOME TO CURRENT AC");  
        System.out.println(" 1] Deposit ");  
        System.out.println(" 2] Check Balance ");  
        System.out.println(" 3] Issue Cheque ");  
        System.out.println(" 4] Exit ");  
        System.out.println(" Enter your choice: ");  
        x = s.nextInt();  
  
        switch(x) {
```

```
            case 1: a2.deposit();
```

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```

        break;
    case 2: a2.checkBalance();
        break;
    case 3: a2.issueCheque();
        break;
    case 4: System.exit(0);
        break;
    default: System.out.println("INVALID CHOICE");
    }
}
while (x <= 4 && x >= 1);
}
else if (a1.acType == 'S' || a1.acType == 's')
{
    Savings a3 = new Savings();
    do {
        System.out.println(" WELCOME TO SAVINGS ACCOUNT");
        System.out.println(" 1] Deposit");
        System.out.println(" 2] View Balance");
        System.out.println(" 3] Withdraw");
        System.out.println(" Calculate CI");
        System.out.println(" 5. Exit");
        System.out.println(" Enter your choice");
    }
}

```

```
x = s.nextEnt();
switch (x) {
    case 1: a3.deposit();
        break;
    case 2: a3.viewBalance();
        break;
    case 3: a3.withdrawBalance();
        break;
    case 4: a3.computeCIC();
        break;
    case 5: System.exit(0);
        break;
    default: System.out.println("INVALID");
}
}
while (x <= 5 & x >= 1),
}
else
    System.out.println("INVALID ACC TYPE");
}
}
```

class Current extends Account {

Current() {

System.out.println("Enter your name.");

name = in.nextLine();

System.out.println("Enter cur acc no");

accNo = in.nextInt();

deposit();

}

double chq- amt;

void issueCheque() {

System.out.println("Enter amt for which  
cheque is to be issued.");

chq- amt = in.nextDouble();

if (chq- amt > bal) {

System.out.println("Insufficient balance");

}

else {

bal = chq- amt;

System.out.println("Cheque issued");

}

}

```
void checkBalance() {  
    if (bal < 1000) {  
        System.out.println("Current available balance is  
        lesser than minimum required balance.");  
        ---  
        bal = 1100;  
        System.out.println("Service charge of ₹100  
        has been deducted from your balance.");  
    }  
    viewBalance();  
}
```

```
class Savings extends Account {  
    double CI, withdrawalAmount, time;  
    Savings() {  
        System.out.println("Enter your name: -");  
        name = in.next();  
        System.out.println("Enter ur acc no");  
        accNo = in.nextInt();  
        deposit();  
    }  
}
```

```
void compute_CI() {  
    System.out.println("Enter time period:");  
    time = in.nextInt();  
    CI = bal * Math.pow(1 + (0.08/12), 12 * time) - bal;  
    System.out.println("CI = " + CI);  
    bal = bal + CI;  
    System.out.println("CI has been deposited");  
}  
  
void withdraw_balance()  
{  
    System.out.println("Enter the amt you want to  
        withdraw");  
    withdraw_amount = in.nextDouble();  
    if (withdraw_amount > bal) {  
        System.out.println("ERROR");  
    }  
    else {  
        bal = bal - withdraw_amount;  
        System.out.println("AMT Has successfully  
            been withdrawn");  
    }  
}
```

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