

```
import java.util.Scanner;  
import
```

```
class Account {
```

```
    String name;
```

```
    int acc-no;
```

```
    boolean current;
```

```
    double balance = 0;
```

```
    int min-balance = 0
```

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

```
    Account() {
```

```
        if (this.getClass() == CurrentAcc.class) {  
            current = true;
```

```
        }
```

```
    } else {
```

```
        current = false;
```

```
    }
```

```
        name = sc.next();
```

```
        System.out.print("Enter account no. : ");
```

```
        acc-no = sc.nextInt();
```

```
    }
```

```
    void deposit() {
```

```
        System.out.print("Enter deposit amount : ");
```

```
        balance += sc.nextDouble();
```

```
    }
```

```
void withdraw() {  
    System.out.print("Enter deposit amount: ");  
    if (amt > this.balance) {  
        System.out.println("Not enough balance");  
    }  
    else {  
        amt = this.balance - amt;  
    }  
}
```

```
void showBalance() {  
    System.out.print("Balance = " + balance);  
}
```

```
class CurrentAcc extends Account {  
    void cheque() {  
        double System.out.print("Enter Cheque Amount");  
        double cheque = sc.nextDouble();  
        withdraw(cheque);  
        System.out.println("Cheque created...");  
    }  
}
```



```

class SavingsAcc extends Account {
    void compound(int t, int r) {
        balance = balance * (Math.pow((1 + (double)r/100), t));
        System.out.print("Balance after given rate = ")
    }
}

```

```

class Bank {
    public static void main(String args[]) {
        SavingsAcc johns = new SavingsAcc();
        CurrentAcc smith = new CurrentAcc();
        Account ref = null;
        System.out.println("----- Menu -----");
        System.out.println("1. Deposit \n 2. Withdraw \n 3. Compute interest \n 4. Display account details \n 5. Create Cheque \n 6. Exit \n Choice: ");
        choice = sc.nextInt();
        System.out.println("Enter account no. ");
        acc = sc.nextInt();
        if (acc == 1)
            ref = johns;
        else
            ref = smith;
    }
}

```

```
while (choice != 6) {
```

```
    if (choice == 0) {
```

```
        ref. deposit();
```

```
    } else if (choice == 1)
```

```
        ref. withdraw();
```

```
    } else if (choice == 3)
```

```
        if (acc == 1)
```

```
            johns.compound(1, 5);
```

```
    } else
```

```
        smith.compound(1, 5);
```

```
    } else if (choice == 4)
```

```
        smith.chque
```

```
}
```

```
System.out.println("Enter account no. :");
```

```
acc = sc.nextInt();
```

```
System.out
```

```
}
```

```
}
```

Output:

Enter account name: John  
Enter account number: 1

----- MENU -----

1. Deposit
2. Withdraw
3. Compute Interest for Saving Account
4. Display account details
5. Exit

choice: 1

Enter amount: 2000

Amount added! ~~total~~ Balance: 2000

choice: 2

Enter amount: 180

Amount withdrawn! Balance 2820

choice: 4

Account name John

Account number: 1

Balance: 2820

~~SP23~~  
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