

~~import java~~

```
import java.util.Scanner;  
class Account {  
    String customerName;  
    String accountNumber;  
    String accountType;  
    double balance;
```

```
    Account (String name, String accNumber, String accType  
    {
```

```
        customerName = name;  
        accountNumber = accNumber;  
        accountType = accType;  
        balance = 0;
```

```
    }  
    void deposit (double amount) {  
        balance += amount;  
        System.out.println ("Deposited " + amount + " updated  
        balance: " + balance);
```

```
    void displayBalance () {  
        System.out.println ("Account balance: " + balance);  
    }
```

```
    void withdraw (double amount) {  
        sop ("This operation is specific to account type");  
    }  
}
```

```
class SavAccount extends Account {  
    SavAccount (String name, String accNumber) {
```

```

    super(name, accNumber, "Savings");
}

```

```

void computeInterest() {
    double interest = balance * 0.03;
    SOP("Interest added: " + interest + " balance with  
Interest: " + (balance + interest));
}

```

```

void withdraw(double amount) {
    if (balance >= amount) {
        balance -= amount;
        SOP("Withdrawn: " + amount + " updated balance: " +  
balance);
    } else {
        SOP("Insufficient balance");
    }
}

```

```

void compoundInterest(double rate, int time) {
    double ci = balance * Math.pow(1 + (rate / 365), 365 *  
time);
    SOP("Compound interest is " + ci + " updated balance"  
+ (balance + ci));
}

```

```

class CurAccount extends Account {
    CurAccount(String name, String accNumber) {
        super(name, accNumber, "Current");
    }
}

```

```

void checkMinBalance() {
    if (balance < 5000) {
        balance -= 300;
        SOP("Balance below minimum. Service  
charge imposed: 300" + " updated  
balance: " + balance);
    }
}

```



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```

else if (pref == 5) {
    create & CompoundInterest(0.05, 15);
} else break;
}
}
else if (accountType == 2) {
    SOP("Enter 4 for check MinBalance");
    Cur Account S = new Cur Account(name, accno);
    while (true) {
        int pref = sc.nextInt();
        if (pref == 1) { SOP("Enter amount");
            double amount = sc.nextDouble(); s.deposit(amount); }
        else if (pref == 2) { SOP("Enter amount");
            double amount = sc.nextDouble();
            s.withdraw(amount); } else if (pref == 3) { s.displayBalance(); }
        else if (pref == 4) { s.checkMinBalance(); }
        else break; } } else break; } } }

```

o/p

Enter 1 for savings

Enter 2 for current

1

Enter name:

ara

Enter account number:

2345

Enter 1 to deposit

Enter 2 to withdraw

Enter 3 to display

Enter 4 for interest

Enter 5 for Compound Interest

1

Enter amount

900

Deposited 900.0 updated balance 900.0

2

Enter amount 100

withdrawn 100.0 updated balance

800.0

3

withdrawn 100.0 Account
balance = 200.0

4 interest added: 24.0

balance with interest: 824.0

5

Compound interest is:

1693.513023467037

updated balance:

2493.513023467035

Rs

20/11/24