

```
5. import java.util.Scanner;
   class account {
```

```
    private String name;
    private long account-number;
    private int account-type;
    double balance;
```

```
    void get-data() {
```

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

```
        System.out.println("Enter your Name");
```

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

```
        System.out.println("Enter the account number");
```

```
        account-number = ss.nextLong();
```

```
        System.out.println("Choose the account type:
```

```
        \n 1. Savings account \n 2. Current
        account");
```

```
        account-type = ss.nextInt();
```

```
    }
```

```
    int return-account-type() {
```

```
        return account-type;
```

```
    }
```

```
}
```

```
class savings extends account {
```

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

```
    double amount;
```

```
    void get-sav-balance() {
```

```
        System.out.println("Enter the amount to
        be placed in your Savings Account");
```

```
        amount = ss.nextDouble();
```

```
        balance += amount;
```

```
    }
```

```
void display-sav-balance() {
    System.out.println("Balance = " + balance);
}

void compute-sav-interest() {
    System.out.println("In Calculating Compound Interest");
    System.out.println("Enter anno annual interest rate: ");
    float rate = ss.nextFloat();
    System.out.println("Enter time in years: ");
    float time = ss.nextFloat();
    System.out.println("Enter principle: ");
    float principle = ss.nextFloat();
    float CI = (float) ((principle * (Math.pow((1 + rate / 100), time))) - principle);
    System.out.println("The Compound Interest is: " + CI);
}

void withdraw-sav() {
    System.out.println("Enter the amount to be withdrawn: ");
    amount = ss.nextDouble();
    balance = balance - amount;
}

class current extends account {
    Scanner ss = new Scanner(System.in);
    double amount;
    final double min-balance = 500;
```



```
void get-cur-balance() {
    System.out.println("Enter the amount to be
        placed in your current account");
    amount = ss.nextDouble();
    balance += amount;
}

void display-cur-balance() {
    System.out.println("Balance = " + balance);
}

void compute-cur-service-charges() {
    if (balance < min-balance) {
        System.out.println("Service tax of Rs.
            100 shall be levied");
        balance = balance - 100;
    }
    else {
        System.out.println("Minimum balance is
            maintained");
    }
}

void withdrawl-cur() {
    System.out.println("Enter the amount to be
        withdrawn");
    amount = ss.nextDouble();
    balance = balance - amount;
}

class bank-main {
    public static void main (String args[]) {
        Scanner ss = new Scanner (System.in);
        int type;
```

```
System.out.println("Enter the bank details");
account acc = new account();
acc.get-data();
type = acc.return-sav
type = acc.return-account-type();
if (type == 1) {
    System.out.println("SAVINGS ACCOUNT");
    savings sav = new savings();
    sav.get-sav-balance();
    sav.display-sav-blnc();
    System.out.println("Do you want to calculate  
Interest or not: In If yes  
press 1 else 0");
    int ch = ss.nextInt();
    if (ch == 1) {
        sav.compute-sav-interest();
    }
    sav.display-sav-blnc();
    sav.withdrawl-sav();
    sav.display-sav-blnc();
}
if (type == 2) {
    System.out.println("CURRENT ACCOUNT");
    current cur = new current();
    cur.get-cur-balance();
    cur.display-cur-blnc();
    cur.compute-cur-service-charges();
    cur.display-cur-blnc();
    cur.withdrawl-cur();
    cur.display-cur-blnc();
}
}
```