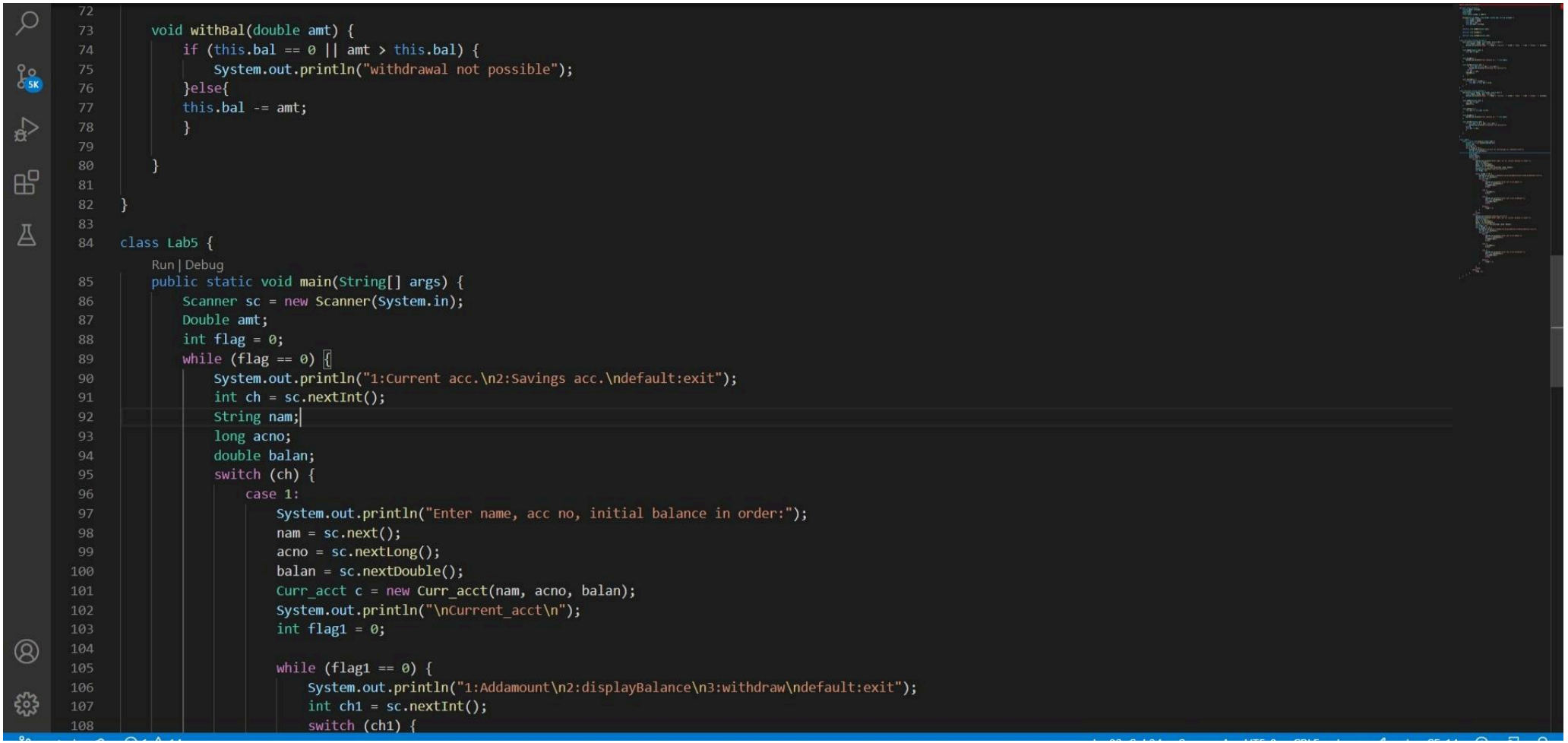
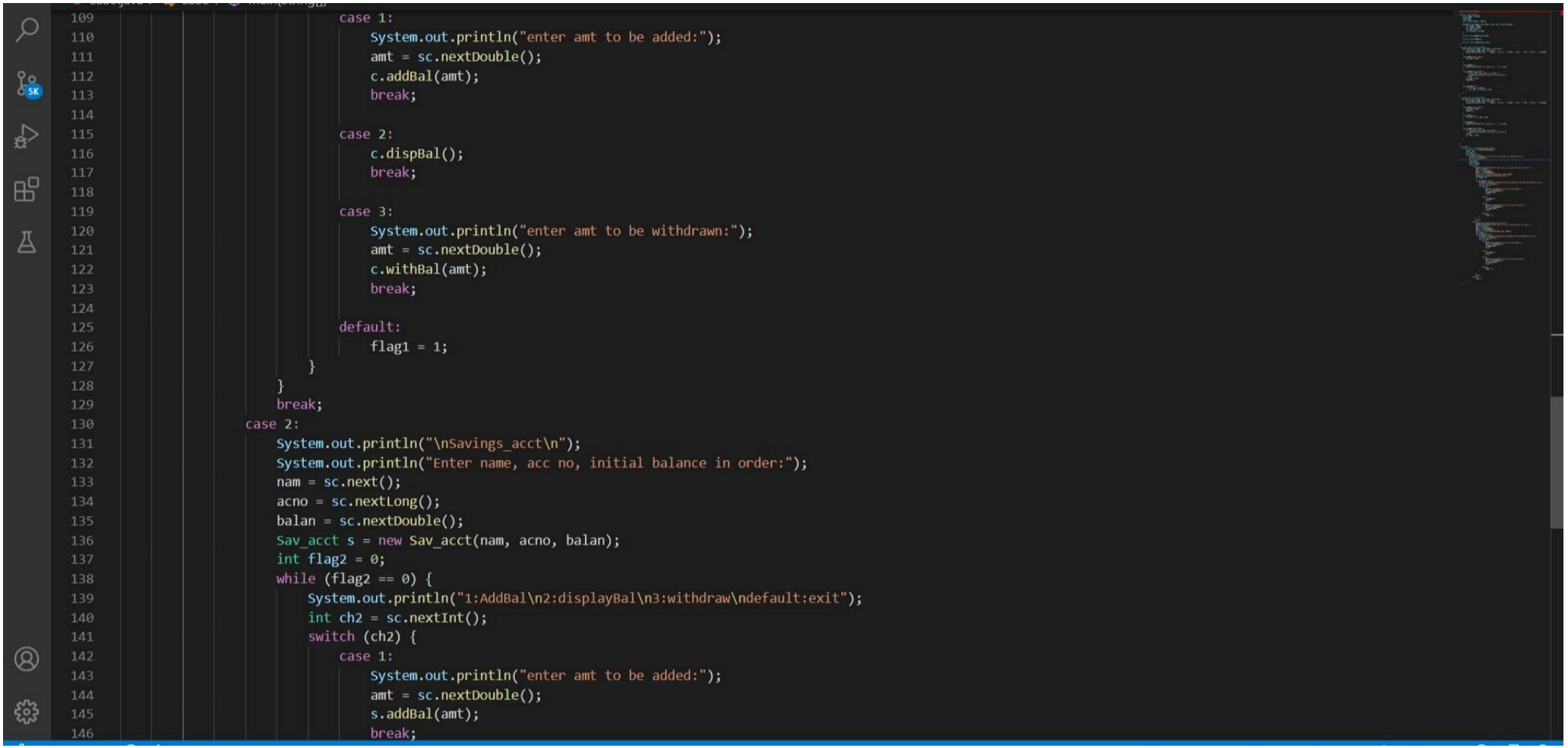
```java
import java.util.Scanner;

abstract class Account {
    String cName, accType;
    long accNo;
    double bal;
    final double minBal = 1000.0;

    Account(String cName, long accNo, double bal, String accType) {
        this.accNo = accNo;
        this.cName = cName;
        this.bal = bal;
        this.accType = accType;
    }

    abstract void addBal(double amt);

    abstract void dispBal();

    abstract void withBal(double amt);
}

class Curr_acct extends Account {
    Curr_acct(String cName, long accNo, double bal) {
        super(cName, accNo, bal, "Current");
        System.out.println("name: " + cName + "\taccno: " + accNo + "\tbal: " + bal + "\ttype: " + accType);
    }

    void addBal(double amt) {
        this.bal += amt;

    }

    void dispBal() {
        System.out.println("Your balance is: " + this.bal);
    }

```

```
    void withBal(double amt) {
         if (this.bal == 0 || amt > this.bal) {
           System.out.println("withdrawal not possible");
         }else{
        this.bal -= amt;
        checkBal();
         }
    }

    void checkBal() {
        if (this.bal < minBal) {
            this.bal -= this.bal * 0.02;
        }
    }
}

class Sav_acct extends Account {
    Sav_acct(String cName, long accNo, double bal) {
        super(cName, accNo, bal, "Savings");
        System.out.println("name: " + cName + "\taccno: " + accNo + "\tbal: " + bal + "\ttype: " + accType);
    }

    void addBal(double amt) {
        this.bal += amt;
        addIntr();
    }

    void addIntr() {
        this.bal += this.bal * 0.07;
    }

    void dispBal() {
        System.out.println("Your balance is: " + this.bal);
    }
```

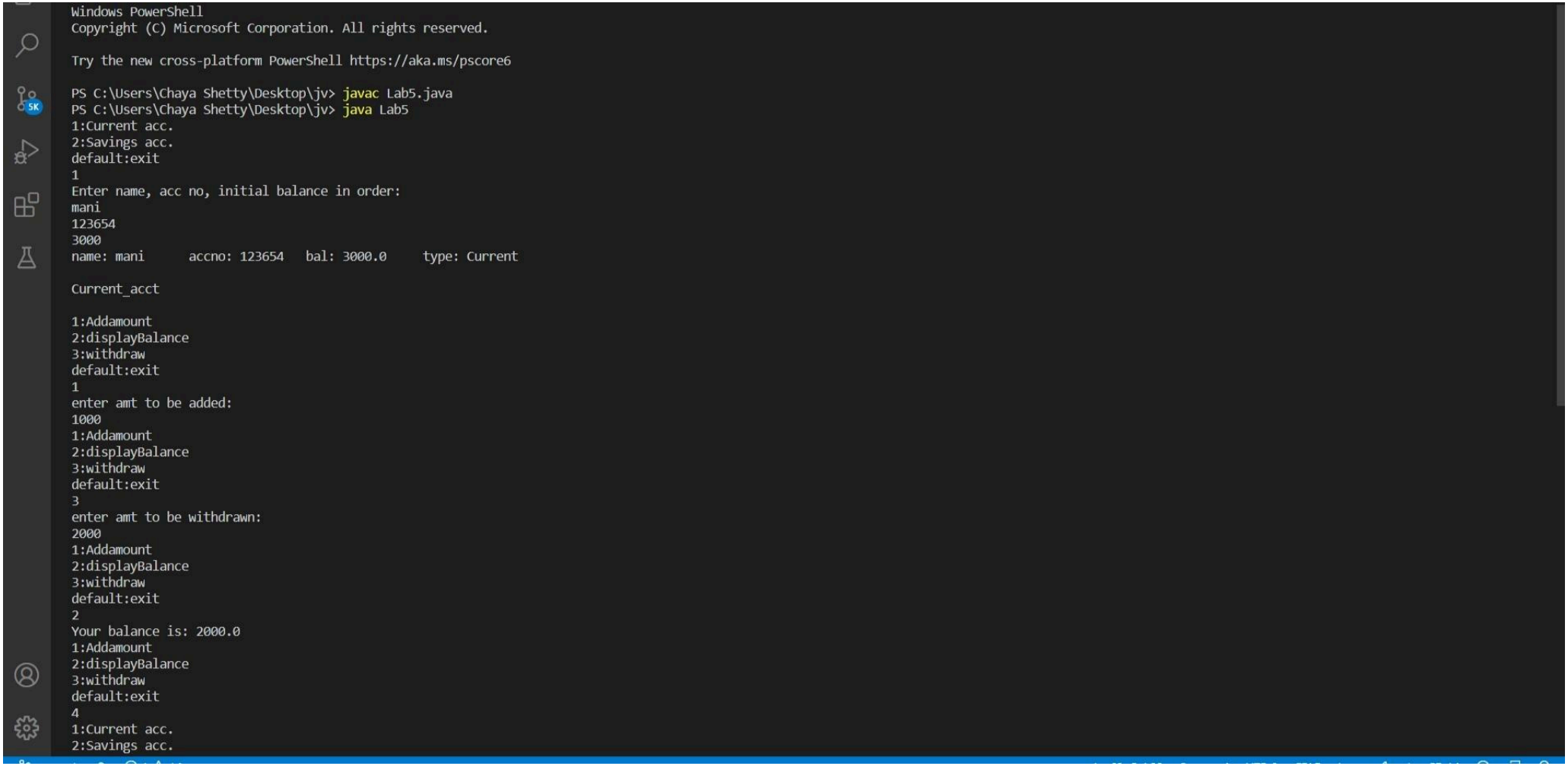


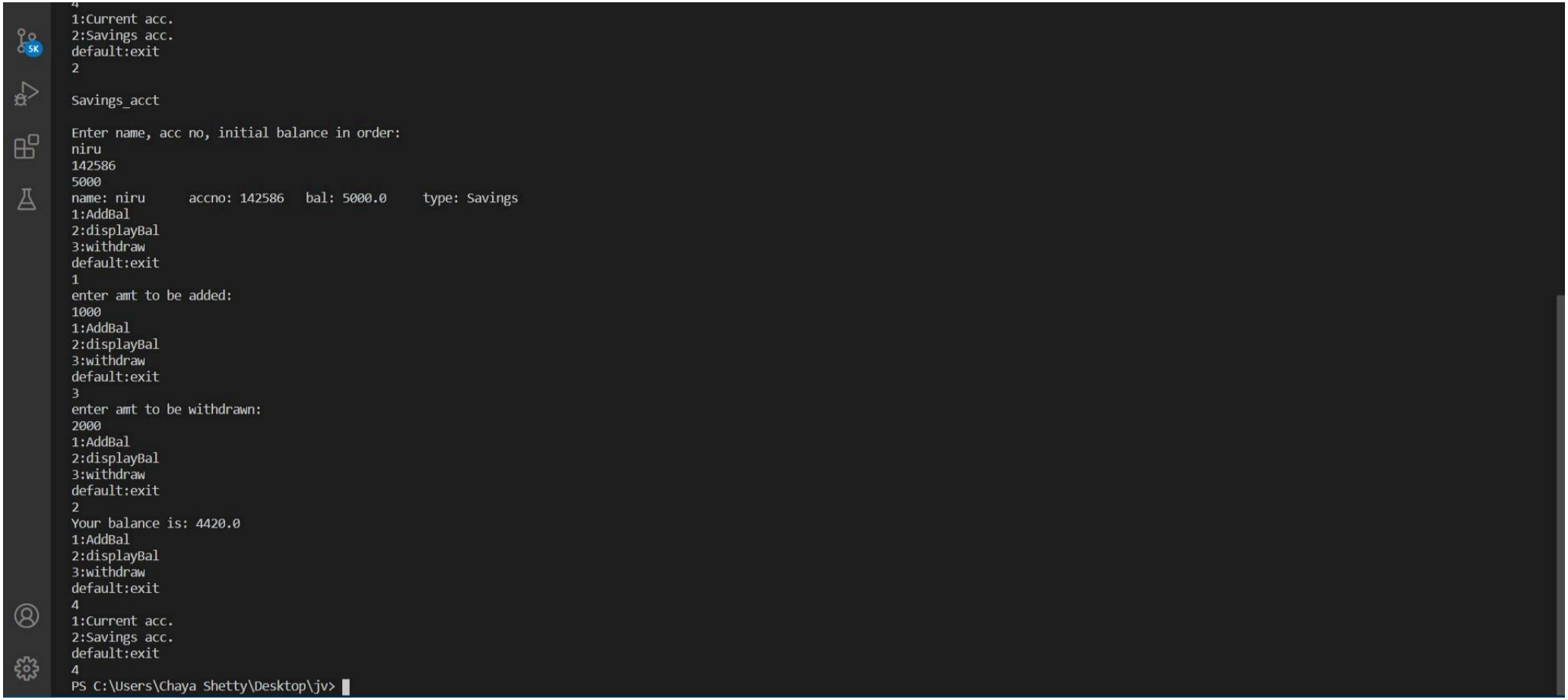
```
72
73      void withBal(double amt) {
74          if (this.bal == 0 || amt > this.bal) {
75              System.out.println("withdrawal not possible");
76          }else{
77          this.bal -= amt;
78          }
79
80      }
81
82  }
83
84  class Lab5 {
        Run | Debug
85      public static void main(String[] args) {
86          Scanner sc = new Scanner(System.in);
87          Double amt;
88          int flag = 0;
89          while (flag == 0) {
90              System.out.println("1:Current acc.\n2:Savings acc.\ndefault:exit");
91              int ch = sc.nextInt();
92              String nam;
93              long acno;
94              double balan;
95              switch (ch) {
96                  case 1:
97                      System.out.println("Enter name, acc no, initial balance in order:");
98                      nam = sc.next();
99                      acno = sc.nextLong();
100                     balan = sc.nextDouble();
101                     Curr_acct c = new Curr_acct(nam, acno, balan);
102                     System.out.println("\nCurrent_acct\n");
103                     int flag1 = 0;
104
105                     while (flag1 == 0) {
106                         System.out.println("1:Addamount\n2:displayBalance\n3:withdraw\ndefault:exit");
107                         int ch1 = sc.nextInt();
108                         switch (ch1) {
```



```
                        case 1:
                            System.out.println("enter amt to be added:");
                            amt = sc.nextDouble();
                            c.addBal(amt);
                            break;

                        case 2:
                            c.dispBal();
                            break;

                        case 3:
                            System.out.println("enter amt to be withdrawn:");
                            amt = sc.nextDouble();
                            c.withBal(amt);
                            break;

                        default:
                            flag1 = 1;
                    }
                }
                break;
            case 2:
                System.out.println("\nSavings_acct\n");
                System.out.println("Enter name, acc no, initial balance in order:");
                nam = sc.next();
                acno = sc.nextLong();
                balan = sc.nextDouble();
                Sav_acct s = new Sav_acct(nam, acno, balan);
                int flag2 = 0;
                while (flag2 == 0) {
                    System.out.println("1:AddBal\n2:displayBal\n3:withdraw\ndefault:exit");
                    int ch2 = sc.nextInt();
                    switch (ch2) {
                        case 1:
                            System.out.println("enter amt to be added:");
                            amt = sc.nextDouble();
                            s.addBal(amt);
                            break;
```

```
147
148                         case 2:
149                             s.dispBal();
150                             break;
151
152                         case 3:
153                             System.out.println("enter amt to be withdrawn:");
154                             amt = sc.nextDouble();
155                             s.withBal(amt);
156                             break;
157
158                         default:
159                             flag2 = 1;
160                     }
161
162                 }
163                 break;
164             default:
165                 flag = 1;
166         }
167     }
168 }
169 }
```


Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\Chaya Shetty\Desktop\jv> javac Lab5.java
PS C:\Users\Chaya Shetty\Desktop\jv> java Lab5
1:Current acc.
2:Savings acc.
default:exit
1
Enter name, acc no, initial balance in order:
mani
123654
3000
name: mani accno: 123654 bal: 3000.0 type: Current
Current_acct
1:Addamount
2:displayBalance
3:withdraw
default:exit
1
enter amt to be added:
1000
1:Addamount
2:displayBalance
3:withdraw
default:exit
3
enter amt to be withdrawn:
2000
1:Addamount
2:displayBalance
3:withdraw
default:exit
2
Your balance is: 2000.0
1:Addamount
2:displayBalance
3:withdraw
default:exit
4
1:Current acc.
2:Savings acc.


4
1:Current acc.
2:Savings acc.
default:exit
2
Savings_acct
Enter name, acc no, initial balance in order:
niru
142586
5000
name: niru accno: 142586 bal: 5000.0 type: Savings
1:AddBal
2:displayBal
3:withdraw
default:exit
1
enter amt to be added:
1000
1:AddBal
2:displayBal
3:withdraw
default:exit
3
enter amt to be withdrawn:
2000
1:AddBal
2:displayBal
3:withdraw
default:exit
2
Your balance is: 4420.0
1:AddBal
2:displayBal
3:withdraw
default:exit
4
1:Current acc.
2:Savings acc.
default:exit
4
PS C:\Users\Chaya Shetty\Desktop\jv>