BankSystem.java 2

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```java
import java.util.Scanner;

class Bank {
    String customername;
    int accnum;
    String acctype;
    double balance;
    Scanner sc = new Scanner(System.in);

    void takeDetails() {
        System.out.print(s: "Enter name: ");
        customername = sc.next();
        System.out.print(s: "Enter acc num: ");
        accnum = sc.nextInt();
        System.out.print(s: "Enter initial balance: ");
        balance = sc.nextDouble();
    }

    void deposit() {
        System.out.print(s: "Enter the amount to be deposited: ");
        double depamt = sc.nextDouble();
        balance = depamt + balance;
        System.out.println("Updated balance after depositing: " + balance);
    }

    void withdraw() {
        System.out.print(s: "Enter Withdraw Amount: ");
        double amt = sc.nextDouble();
        if (amt <= balance) {
            balance -= amt;
        } else {
            System.out.println(x: "Not enough balance!");
        }
        System.out.println("Balance after withdraw: " + balance);
    }

```

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```
3   class Bank {
36
37      void calculateInterest() {
38          System.out.println(x: "Interest not applicable for this account.");
39      }
40
41      void displayBalance() {
42          System.out.println("Current balance: " + balance);
43      }
44  }
45
46  class SavAcc extends Bank {
47      double interestRate;
48
49      void setInterest() {
50          System.out.print(s: "Enter Interest rate: ");
51          interestRate = sc.nextDouble();
52      }
53      void calculateInterest() {
54          double interest = balance * interestRate / 100;
55          balance += interest;
56          System.out.println("Balance after interest: " + balance);
57      }
58  }
59
60  class CurAcc extends Bank {
61      void withdraw() {
62          double minBalance = 500;
63          double penalty = 50;
64          System.out.print(s: "Enter Withdraw Amount: ");
65          double amt = sc.nextDouble();
66          if (amt <= balance) {
67              balance -= amt;
68              if (balance < minBalance) {
69                  balance -= penalty;
70                  System.out.println("Penalty charged! New balance: " + balance);
71              }
```

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```
60  class CurAcc extends Bank {
61      void withdraw() {
72          } else {
73              System.out.println(x: "Not enough balance!");
74          }
75      }
76  }
77
78  public class BankSystem {
        Run | Debug
79      public static void main(String args[]) {
80          Scanner sc = new Scanner(System.in);
81          Bank acc;
82
83          System.out.print(s: "Enter Account Type (Savings/Current): ");
84          String typ = sc.next();
85
86          if (typ.equalsIgnoreCase(anotherString: "Savings")) {
87              acc = new SavAcc();
88              ((SavAcc) acc).setInterest();
89          } else {
90              acc = new CurAcc();
91          }
92
93          acc.takeDetails();
94
95          while (true) {
96              System.out.println(x: "\n1. Deposit\n2. Withdraw\n3. Display Balance\n4. Calculate Interest\n5. Exit");
97              System.out.print(s: "Enter choice: ");
98              int choice = sc.nextInt();
```

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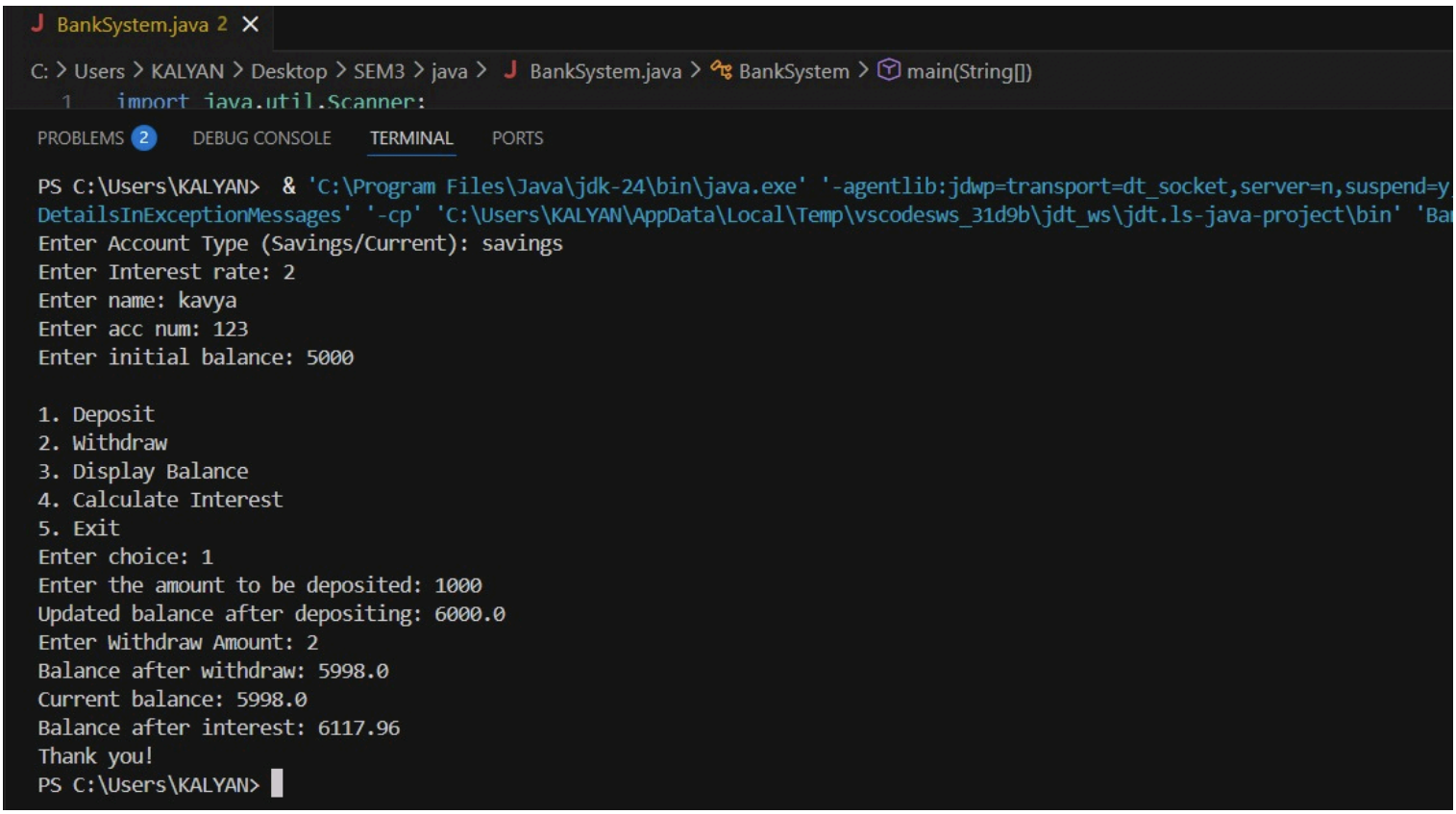
```
78  public class BankSystem {
79      public static void main(String args[]) {
99
100             switch (choice) {
101                 case 1:
102                 {
103                     acc.deposit();
104                 }
105                 case 2:
106                 {
107                     acc.withdraw();
108                 }
109                 case 3:
110                 {
111                     acc.displayBalance();
112                 }
113                 case 4:
114                 {
115                     acc.calculateInterest();
116                 }
117                 case 5:
118                 {
119                     System.out.println(x: "Thank you!");
120                     System.exit(status: 0);
121                 }
122                 default:
123                 {
124                     System.out.println(x: "Invalid choice!");
125 💡              }
126             }
127         }
128     }
129 }
130
```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1 import java.util.Scanner;
PROBLEMS 2
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\KALYAN> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y
DetailsInExceptionMessages' '-cp' 'C:\Users\KALYAN\AppData\Local\Temp\vscodesws_31d9b\jdt_ws\jdt.ls-java-project\bin' 'Ba
Enter Account Type (Savings/Current): savings
Enter Interest rate: 2
Enter name: kavya
Enter acc num: 123
Enter initial balance: 5000
1. Deposit
2. Withdraw
3. Display Balance
4. Calculate Interest
5. Exit
Enter choice: 1
Enter the amount to be deposited: 1000
Updated balance after depositing: 6000.0
Enter Withdraw Amount: 2
Balance after withdraw: 5998.0
Current balance: 5998.0
Balance after interest: 6117.96
Thank you!
PS C:\Users\KALYAN>