Lab Program 5

```
import java.util.Scanner;

class Account{
    String customername;
    int accountnumber;
    String accounttype;
    double balance;
    Scanner scanner=new Scanner(System.in);
    void getAccountDetails(){
        System.out.println("Enter Customer name");
        customername=scanner.nextLine();
        System.out.println("Enter account number");
        accountnumber=scanner.nextInt();
        System.out.println("Enter Account Type");
        accounttype=scanner.nextLine();
        System.out.println("Enter Account Balance");
        balance=scanner.nextInt();
    }
    void deposit(){
        System.out.println("Enter amount to deposit");
        double amount=scanner.nextDouble();
        balance += amount;
        System.out.println("Amount depsoited");
    }
    void displaybalance(){
        System.out.println("Account Holder:"+customername);
        System.out.println("Account Number:"+accountnumber);
        System.out.println("Account Type:"+accounttype);
```

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        System.out.println("Current Balance"+balance);
    }
}
class Savacct extends Account{
    final double interestrate=0.05;
    void computeInterest(){
        System.out.println("Enter the time period in years");
        double time=scanner.nextDouble();
        double interest= (balance*interestrate*time)/100;
        balance+=interest;
    }
    void withdraw(){
        System.out.println("Enter amount to withdraw");
        double amount=scanner.nextDouble();
        if(amount<=balance){
            balance-=amount;
            System.out.println("Withdrawn");
        }
        else{
            System.out.println("Insufficient balance");
        }
    }
}
class Curacct extends Account{
    final double minimumbalance=1000;
    final double servicecharge=100;
    void checkminimumbalance(){
        if(balance<minimumbalance){
```

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        balance-=servicecharge;
        System.out.println("Service charge imposed");
      }
      else{
        System.out.println("Minimum balance is there");
      }
    }
    void withdraw(){
      System.out.println("Enter amount to withdraw");
      double amount=scanner.nextDouble();
      if(amount<=balance){
        balance-=amount;
        System.out.println("Withdrawn");
      }
      else{
        System.out.println("Insufficient balance");
      }
    }
}
public class BankDemo {
    public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      System.out.println("Welcome to Bank System ");
      System.out.print("Enter account type (savings/current): ");
      String type = scanner.nextLine().toLowerCase();
      if (type.equals("savings")) {
        Savacct s = new Savacct();
        s.getAccountDetails();
```
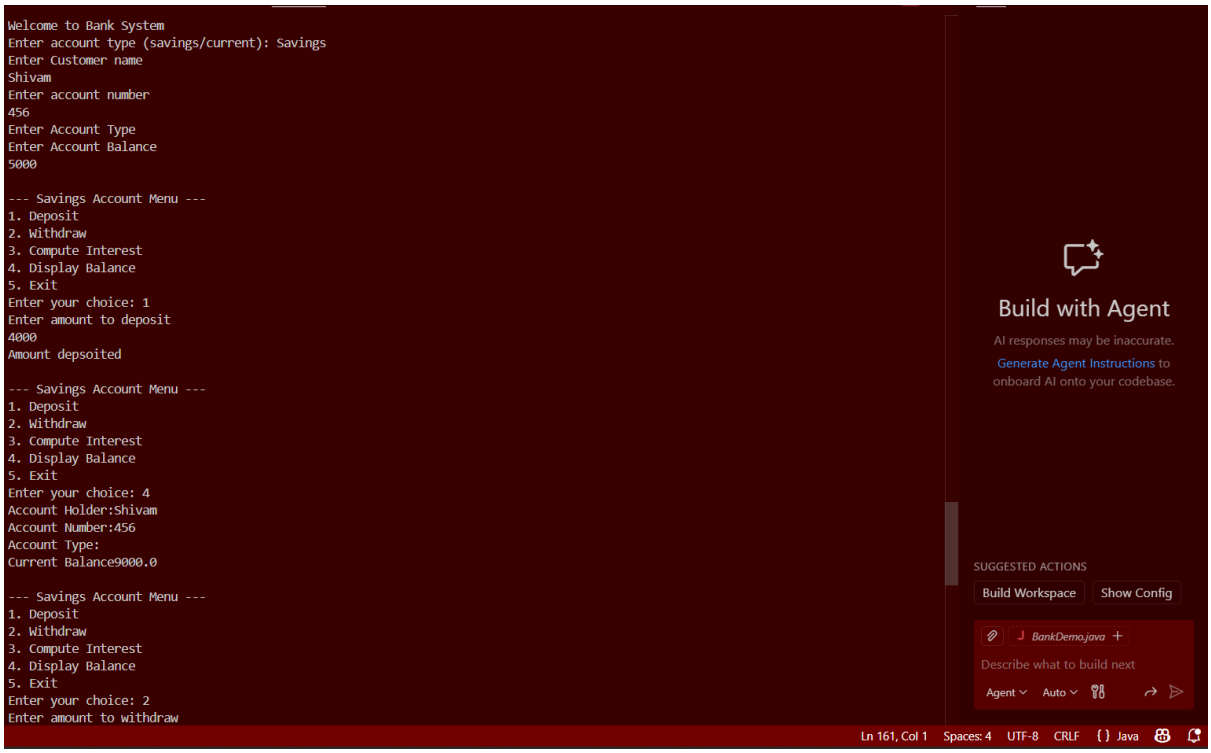
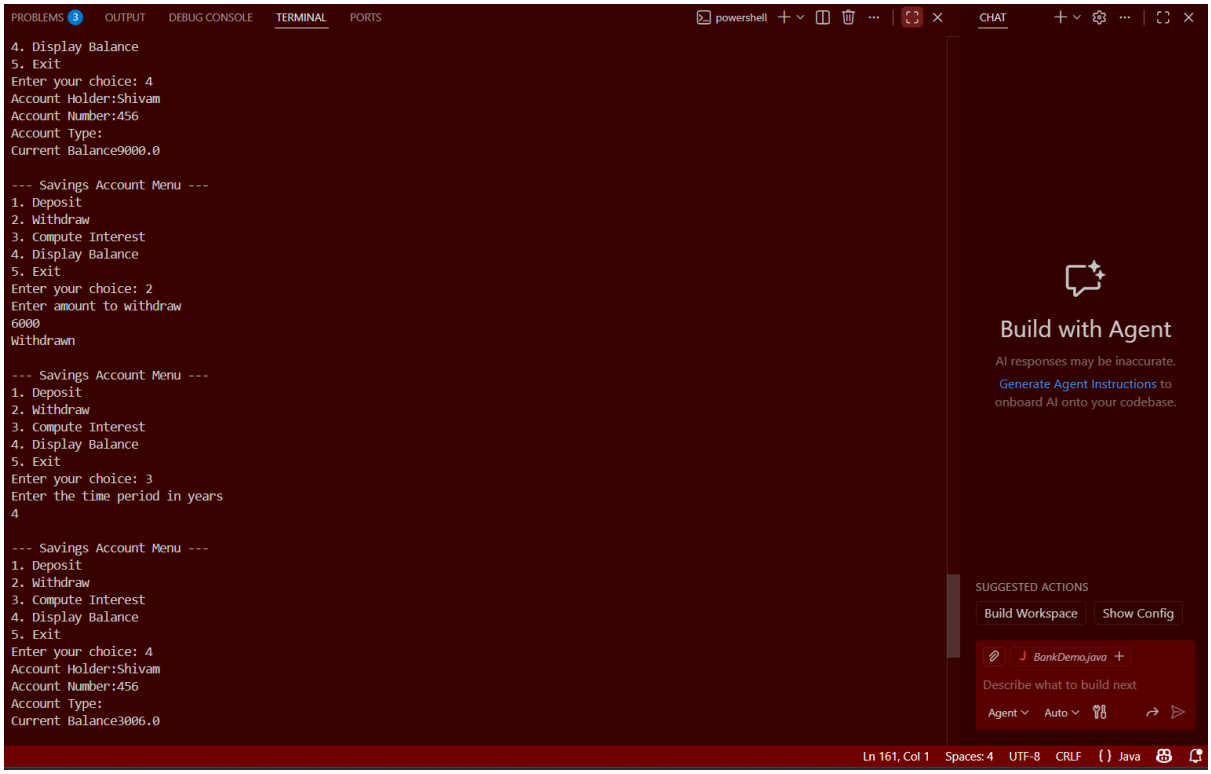
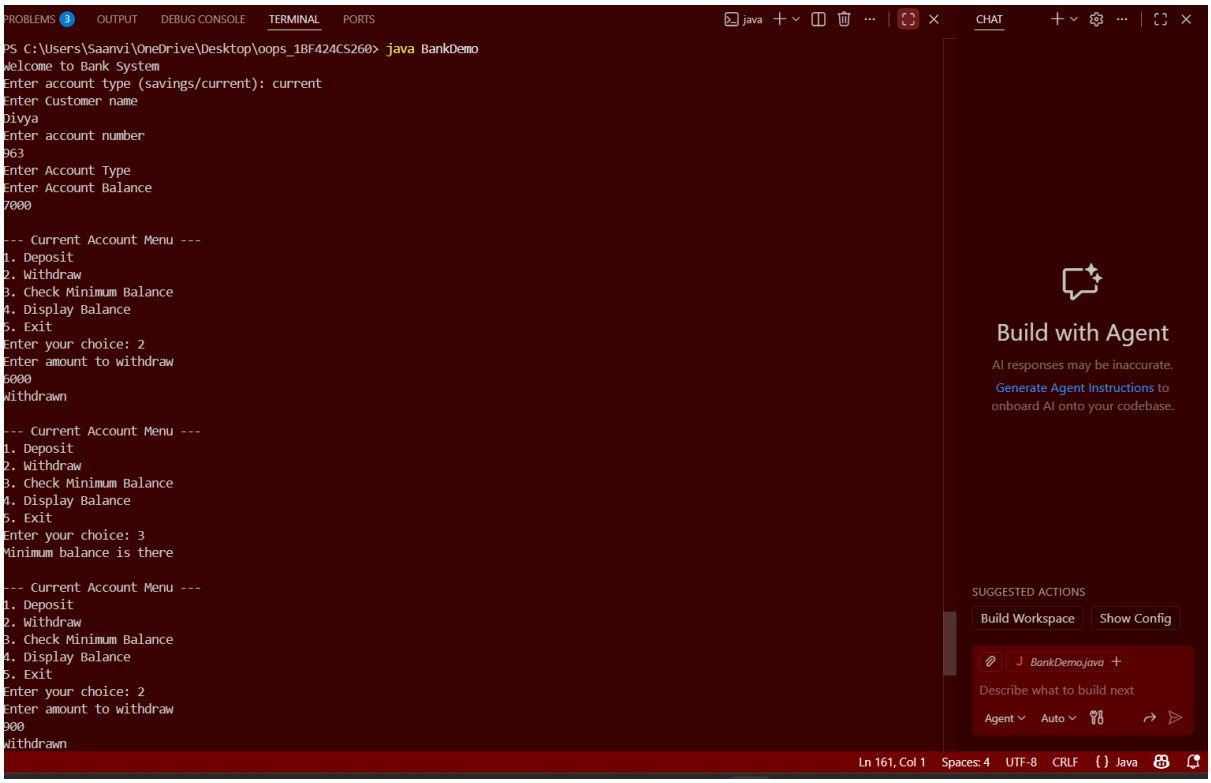

```
while (true) {
    System.out.println("\n--- Savings Account Menu ---");
    System.out.println("1. Deposit");
    System.out.println("2. Withdraw");
    System.out.println("3. Compute Interest");
    System.out.println("4. Display Balance");
    System.out.println("5. Exit");
    System.out.print("Enter your choice: ");
    int ch = scanner.nextInt();
    switch (ch) {
        case 1:
            s.deposit();
            break;
        case 2:
            s.withdraw();
            break;
        case 3:
            s.computeInterest();
            break;
        case 4:
            s.displaybalance();
            break;
        case 5:
            System.out.println("Thank you for using our bank!");
            return;
        default:
            System.out.println("Invalid choice!");
    }
```

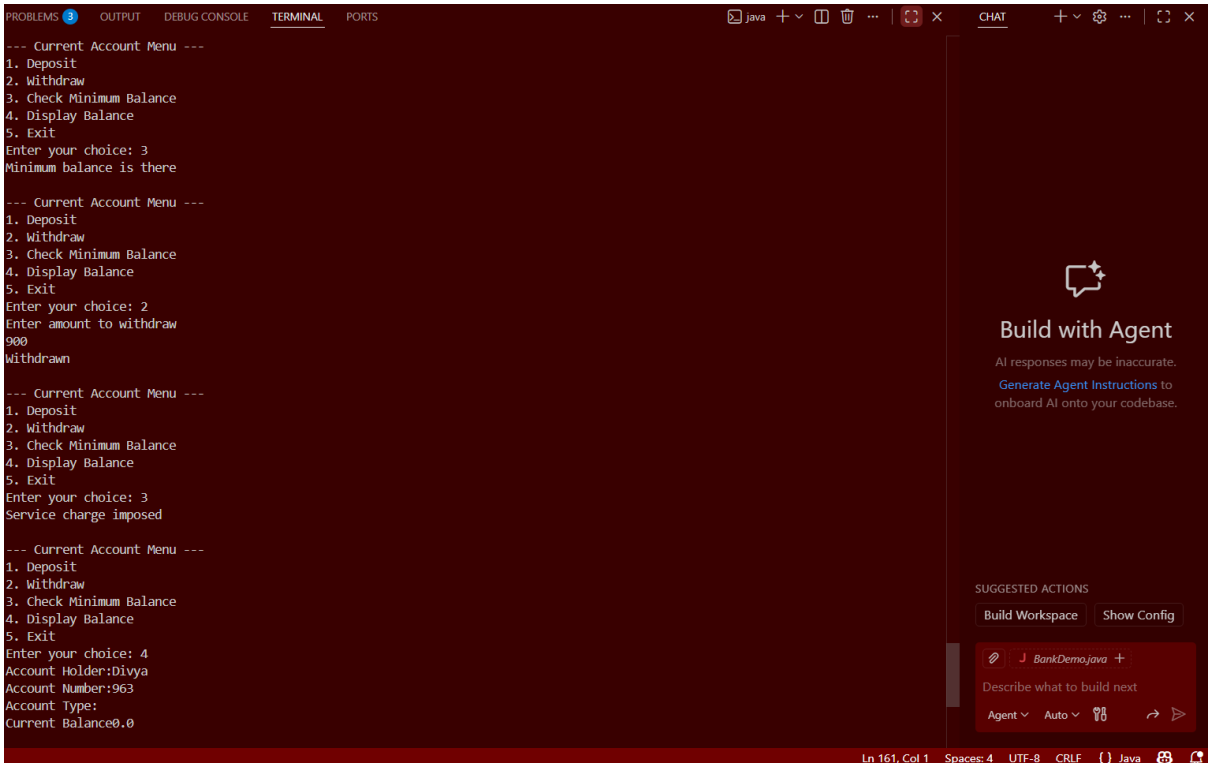
```
    }

} else if (type.equals("current")) {
    Curacct c = new Curacct();
    c.getAccountDetails();
    while (true) {
        System.out.println("\n--- Current Account Menu ---");
        System.out.println("1. Deposit");
        System.out.println("2. Withdraw");
        System.out.println("3. Check Minimum Balance");
        System.out.println("4. Display Balance");
        System.out.println("5. Exit");
        System.out.print("Enter your choice: ");
        int ch = scanner.nextInt();
        switch (ch) {
            case 1:
                c.deposit();
                break;
            case 2:
                c.withdraw();
                break;
            case 3:
                c.checkminimumbalance();
                break;
            case 4:
                c.displaybalance();
                break;
            case 5:
```

```
                System.out.println("Thank you for using our bank!");
                return;
            default:
                System.out.println("Invalid choice!");
        }
    }

    } else {
        System.out.println("Invalid account type entered!");
    }
  }
}
```




PROBLEMS 3
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
powershell
CHAT
4. Display Balance
5. Exit
Enter your choice: 4
Account Holder:Shivam
Account Number:456
Account Type:
Current Balance9000.0
--- Savings Account Menu ---
1. Deposit
2. Withdraw
3. Compute Interest
4. Display Balance
5. Exit
Enter your choice: 2
Enter amount to withdraw
6000
Withdrawn
--- Savings Account Menu ---
1. Deposit
2. Withdraw
3. Compute Interest
4. Display Balance
5. Exit
Enter your choice: 3
Enter the time period in years
4
--- Savings Account Menu ---
1. Deposit
2. Withdraw
3. Compute Interest
4. Display Balance
5. Exit
Enter your choice: 4
Account Holder:Shivam
Account Number:456
Account Type:
Current Balance3006.0
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
SUGGESTED ACTIONS
Build Workspace
Show Config
BankDemo.java
Describe what to build next
Agent
Auto
Ln 161, Col 1
Spaces: 4
UTF-8
CRLF
{} Java


PROBLEMS 3
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
java
CHAT
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260> java BankDemo
Welcome to Bank System
Enter account type (savings/current): current
Enter Customer name
Divya
Enter account number
963
Enter Account Type
Enter Account Balance
7000
--- Current Account Menu ---
1. Deposit
2. Withdraw
3. Check Minimum Balance
4. Display Balance
5. Exit
Enter your choice: 2
Enter amount to withdraw
6000
Withdrawn
--- Current Account Menu ---
1. Deposit
2. Withdraw
3. Check Minimum Balance
4. Display Balance
5. Exit
Enter your choice: 3
Minimum balance is there
--- Current Account Menu ---
1. Deposit
2. Withdraw
3. Check Minimum Balance
4. Display Balance
5. Exit
Enter your choice: 2
Enter amount to withdraw
900
Withdrawn
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
SUGGESTED ACTIONS
Build Workspace
Show Config
BankDemo.java
Describe what to build next
Agent
Auto
Ln 161, Col 1
Spaces: 4
UTF-8
CRLF
{} Java


PROBLEMS 3
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
java
CHAT
--- Current Account Menu ---
1. Deposit
2. Withdraw
3. Check Minimum Balance
4. Display Balance
5. Exit
Enter your choice: 3
Minimum balance is there
--- Current Account Menu ---
1. Deposit
2. Withdraw
3. Check Minimum Balance
4. Display Balance
5. Exit
Enter your choice: 2
Enter amount to withdraw
900
Withdrawn
--- Current Account Menu ---
1. Deposit
2. Withdraw
3. Check Minimum Balance
4. Display Balance
5. Exit
Enter your choice: 3
Service charge imposed
--- Current Account Menu ---
1. Deposit
2. Withdraw
3. Check Minimum Balance
4. Display Balance
5. Exit
Enter your choice: 4
Account Holder:Divya
Account Number:963
Account Type:
Current Balance0.0
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
SUGGESTED ACTIONS
Build Workspace
Show Config
BankDemo.java
Describe what to build next
Agent
Auto
Ln 161, Col 1
Spaces: 4
UTF-8
CRLF
Java