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Iab6 - Notepad
File Edit Format View Help
import java.util.*;
import java.lang.Math;
class Account
        String name;
        int acctno;
        char type;
        double balance;
        double dep;
        boolean cheq;
        void get(char c)
                 type = c;
if(c=='s' || c ==
                 cheq=false;
                 else cheq=true;
                 Scanner sc = new Scanner(System.in);
                 System.out.println("Enter your name");
                 name = sc.nextLine();
                 System.out.println("Enter the account number");
                 acctno = sc.nextInt();
                 System.out.println("Enter the current available balance in your account");
                 balance= sc.nextDouble();
        }
        void putd()
                 System.out.println("Account details");
                 System.out.println("Name: "+name);
                 System.out.println("Account number: "+acctno);
                 System.out.println("Account type :"+type);
System.out.println("balance: "+balance);
        void dep()
                                   Scanner ss = new Scanner(System.in);
                                   System.out.println("Enter the amount to be deposited");
                                   dep= ss.nextDouble();
                                   balance=balance +dep;
                                   System.out.println("Amount has been deposited and balance has been updated");
        void display()
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File Edit Format View Help
                                System.out.println("Balance amount is "+balance);
        void check()
                                if(cheq==false)
                                System.out.println("Cheque book facility is not available");
                                System.out.println("Cheque book facility is available");
class Saving extends Account
        double rate;
        double s_with;
        int n;
        int ch;
        double amt;
        double term;
        double pr;
        void ci()
                                         Scanner ss = new Scanner(System.in);
                                         System.out.println("Enter principal deposit amount");
                                         pr = ss.nextDouble();
                                         System.out.println("Enter the rate of interest");
                                         rate = ss.nextDouble();
                                         System.out.println("Enter the term(years)");
                                         term = ss.nextDouble();
                                         System.out.println("Enter the number of times interest in compounded annually");
                                         n = ss.nextInt();
                                         amt = pr* Math.pow((1+(rate/100)),(n*term));
                                         balance+= amt;
                                         System.out.println("Interest is compounded and deposited; balance is updated");
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lab6 - Notepad

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       void with_s()
       {
                                Scanner ss = new Scanner(System.in);
                                System.out.println("Enter the amount of money to be withdrawn");
                                s_with = ss.nextDouble();
                                if(s_with>balance)
                                System.out.println("Insufficient balance");
                                else
                                {balance= balance - s_with;
                                System.out.println("Money has been withdrawn and balance has been updated");}
       }
class Current extends Account
{
       double c_with;
       double pen;
        double min;
        Current()
                pen=100;
                min=500;
        }
        void with_c()
                                 Scanner xx = new Scanner(System.in);
                                 System.out.println("Enter the amount to be withdrawn");
                                 c_with= xx.nextDouble();
                                 if(c_with>balance)
                                 {System.out.println("Insufficient funds!");
                                 return;}
                                 else
                                 {balance= balance- c_with;
                                 System.out.println("Amount has been withdrawn and balance has been updated");}
```

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                                       {balance= balance- c_with; System.out.println("Amount has been withdrawn and balance has been updated");} if(balance<min)
                                                System.out.println("Balance is below the minimum threshold. Service penalty charge = 100/- ."); if(balancecpen)
System.out.println("Due to insufficient funds, penalty charge will be deducted from account after replenishing. Current balance is "+balance); else
                                                 {
                                                           balance= balance-pen;
                                                           System.out.println("Penalty charge has been deducted from account balance. Current balance is "+balance);
        }
public class lab6
         public static void main(String sss[])
                   Saving s = new Saving();
s.get('s');
do{
System.out.println("1. Deposit money\n2. Calculate compound interest\n3. Withdraw money\n4. Display balance\n5. Cheque book facility\n6. Exit");
System.out.println("Enter your choice");
chh = sx.nextInt();
chitsh(cht)();
                              switch(chh)
                                        case 1:
s.dep();
                                         break;
                                         case 2:
                                         s.ci();
                                         break:
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                              case 3:
                              s.with_s();
                              break;
                              case 4:
                              s.display();
                              break;
                             case 5:
                              s.check();
                              break;
                              case 6:
                              break;
                              System.out.println("Wrong option.");
                             break;
                     }while(chh!=6);
             else if(ch==2)
                     Current cr = new Current();
                     cr.get('C');
                     System.out.println("1. Deposit money\n2. Chequebook facility\n3. Withdraw money\n4. Display balance\n5. Exit");
                     cch= sx.nextInt();
                     switch(cch)
                             case 1:
                             cr.dep();
                             break;
                             case 2:
                             cr.check();
                             break;
                             case 3:
                             cr.with_c();
                             break;
                            case 4:
```

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                       }while(chh!=6);
               }
else if(ch==2)
                       Current cr = new Current();
                       cr.get('C');
                       do{
                      System.out.println("1. Deposit money\n2. Chequebook facility\n3. Withdraw money\n4. Display balance\n5. Exit");
                       cch= sx.nextInt();
                       switch(cch)
                               case 1:
                               cr.dep();
                               break;
                               case 2:
cr.check();
                               break;
                               case 3:
                               cr.with_c();
                               break;
                               case 4:
                               cr.display();
                               break;
                               case 5:
                               break;
                               default:
                                System.out.println("Wrong option.");
                                break;
               }while(cch!=5);
               else System.out.println("Wrong!");
```

```
D:\java>java lab6
-----Welcome-----
Savings account or current account? 1- Savings; 2- Current
Enter your name
eshan
Enter the account number
94458
Enter the current available balance in your account 10000
1. Deposit money
2. Calculate compound interest
3. Withdraw money
4. Display balance
5. Cheque book facility
6. Exit
Enter your choice
Enter the amount of money to be withdrawn
4000
Money has been withdrawn and balance has been updated
1. Deposit money
2. Calculate compound interest
3. Withdraw money
4. Display balance
5. Cheque book facility
6. Exit
Enter your choice
4
Balance amount is 6000.0

    Deposit money
    Calculate compound interest

3. Withdraw money
4. Display balance
Cheque book facility
6. Exit
Enter your choice
D:\java>java lab6
------Welcome-----
Savings account or current account? 1- Savings; 2- Current
2
Enter your name
eshan
Enter the account number
94458
Enter the current available balance in your account
10000

    Deposit money
```

```
D:\java>java lab6
-------Welcome------
Savings account or current account? 1- Savings; 2- Current
2
Enter your name
eshan
Enter the account number
Enter the account number
94458
Enter the current available balance in your account
10000
1. Deposit money
2. Chequebook facility
3. Withdraw money
4. Display balance
5. Exit
Enter the amount to be deposited

6000

Amount has been deposited and balance has been updated

1. Deposit money

2. Chequebook facility

3. Withdraw money
4. Display balance
5. Exit
Balance amount is 16000.0

    Deposit money
    Chequebook facility

3. Withdraw money
4. Display balance
5. Exit
```