Lab8 Arrary

```
Account.java
                   ☑ Bank.java ☒ ☑ Customer.java
                                                        *Customer2.ja
  1 //บททที8
    public class Bank {
  3
          private Account acct[];
  4
          private int numAcct;
  58
          public Bank() {
  6
               acct = new Account[10];
  7
  80
          public void addAccount(Account account) {
  9
               acct[numAcct] = account;
 10
               numAcct++;
11
12⊖
          public Account getAccount(int index) {
13
               return acct[index];
14
          }
15⊖
          public int getNumAccount() {
16
               return numAcct;
 17
189
          public static void main(String[] args) {
19
               Bank bank = new Bank();
 20
               bank.addAccount(new Account(100));
               Account account = new Account();
 21
 22
               bank.getAccount(0).withdraw(50);
 23
               account = bank.getAccount(0);
 24
               account.showBalance();
 25
 26
               System.out.println(bank.getNumAccount());
 27
          }
🗓 Account.java 🔃 *Customer2.java 🛭 🔑 Customer3.java
    //chaper8 ex2 continue
   public class Customer2 {
       public static void main(String[] args){
 4
           Account acct1 = new Account(5000);
 5
           Account acct2 = new Account(3000);
           Customer cust:
 8
           cust = new Customer("Somchi", "Sommit");
           cust.addAccount(acct1);
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25 //
27 //
28 //
29 //
30 //
31 //
32 //
           cust.showName();
           cust.getAccount(cust.getNumOfAccount()-1).deposit(100);
           cust.getAccount(cust.getNumOfAccount()-1).withdraw(50);
           cust.getAccount(cust.getNumOfAccount()-1).showBalance();
           cust.addAccount(acct2);
           cust.getAccount(cust.getNumOfAccount()-1).deposit(30);
           cust.getAccount(cust.getNumOfAccount()-1).withdraw(20);
           cust.getAccount(cust.getNumOfAccount()-1).showBalance();
                    cust.setAccount(myAccount);
             cust.getAccount().withdraw(4300);
             cust.getAccount().showBalance();
             ((CheckingAccount)cust.getAccount()).showCredit();
             cust.getAccount().deposit(4200);
             cust.getAccount().showBalance();
             ((CheckingAccount)cust.getAccount()).showCredit();
             System.out.println(cust.getFirstName()+" "+cust.getLastName());
33
34 }
```

```
☑ Account.java
☑ Customer.java ☒ ☑ *Customer2.java
                                               Customer3.java
    //Chapeter8 ex1
   public class Customer {
        private String firstName;
 4
        private String lastName;
  5
        private Account acct[];
 6
        private int numOfAccount;
 80
        public Customer(){
 9
            acct =new Account[5];
10
        public Customer(String firstName, String lastName){
11⊝
12
            this.firstName = firstName;
13
            this.lastName = lastName;
14
            acct =new Account[5];
15
16
17<sup>e</sup>
        public void setCustomer(String firstName, String lastName){
            this.firstName = firstName;
18
19
            this.lastName = lastName;
20
21
22
230
        public void showName() {
            System.out.print(firstName+" "+ lastName+"\n");
24
25
269
        public void setFirstName(String firstName){
27
            this.firstName = firstName;
28
29⊝
        public void setLastName(String lastName){
30
            this.lastName = lastName;
31
        public void addAccount(Account account) {
32⊝
33
            this.acct[numOfAccount] = account;
34
            numOfAccount++;
35
36⊜
        public Account getAccount(int index) {
37
            return acct[index]:
38
39⊝
        public String getFirstName(){
40
            return this.firstName;
41
42⊖
        public String getLastName(){
43
            return this.lastName;
 44
 45⊜
              public int getNumOfAccount() {
 46
                     return numOfAccount;
 47
 48
 49
 50
```

```
1 import java.util.ArrayList;
  3
    //chaper8 ex3
    public class Customer3 {
            private String firstName;
  6
             private String lastName;
             private ArrayList<Account> acct;
& 8
             private int numOfAccount;
  9
 10⊝
             public Customer3(){
 11
                  acct =new ArrayList<>();
 12
             public Customer3(String firstName, String lastName){
 13⊜
                  this.firstName = firstName;
 14
                  this.lastName = lastName;
 15
                  acct =new ArrayList<>();
 16
 17
 18
 19⊜
             public void setCustomer(String firstName, String lastName){
 20
                  this.firstName = firstName;
 21
                  this.lastName = lastName;
 22
 23
 25⊜
             public void setFirstName(String firstName){
                  this.firstName = firstName;
 26
 27
 28⊜
             public void setLastName(String lastName){
 29
                  this.lastName = lastName;
 30
 31⊖
             public void addAccount(Account account) {
 32
                  this.acct.add(account);
 33
                  numOfAccount++;
 34
 35⊜
             public Account getAccount(int index) {
 36
                  return acct.get(index);
 37
 38⊝
             public String getFirstName(){
 39
                  return this.firstName;
 40
 41⊝
             public String getLastName(){
 42
                  return this.lastName:
 43
   440
              public int getNumOfAccount() {
    45
                  return acct.size();
    46
   47
              public static void main(String[] args) {
   48<sup>9</sup>
                  Account acct1 = new Account(5000);
   49
    50
                  Account acct2 = new Account(3000);
    51
    52
                  Customer3 cust;
    53
                  cust = new Customer3("Somchi", "Sommit");
                  cust.addAccount(acct1);
    54
    55
    56
                  cust.getAccount(cust.getNumOfAccount()-1).deposit(100);
    57
                  cust.getAccount(cust.getNumOfAccount()-1).withdraw(50);
                  cust.getAccount(cust.getNumOfAccount()-1).showBalance();
    58
    59
    60
                  cust.addAccount(acct2);
                  cust.getAccount(cust.getNumOfAccount()-1).deposit(30);
    61
    62
                  cust.getAccount(cust.getNumOfAccount()-1).withdraw(20);
    63
                  cust.getAccount(cust.getNumOfAccount()-1).showBalance();
    64
    65
    66 }
```

☑ Instruction.java

☑ FileManager.java

notepad.java

```
Account.java \(\times\)
  1 //Chapter4 Ex3
  2 public class Account {
        protected double balance;
 4⊖
        public Account(){
  5
  6
  7
 80
        public Account(double amount){
 9
10
             this.balance = amount;
11
12⊖
        public void deposit(double amount){
13
             this.balance += amount;
14
15⊜
        public boolean withdraw(double amount){
16
             if(this.balance >= amount){
17
                 this.balance -= amount;
18
                 return true;
19
20
             return false;
21
229
        public double getBalance(){
23
             return this.balance;
24
25⊜
        public void showBalance(){
26
27
             System.out.println(this.balance);
28
29⊝
        public static void main(String[] args){
30
             Account account = new Account(10);
             account.deposit(50.2);
31
32
             account.deposit(20);
33
             account.showBalance();
34
        }
35
36
```