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| **2019년 10월 07일 실습보고서** |
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| **실습자료 1 : [bank~],** |
| **소스코드** |
| //BankAccount.java  package java\_1008;  import java\_1008.BankAccount;  public class BankAccount {  private int accountNumber;  private String customerName;  private double accountBalance;    public BankAccount() {  this(0,"noname",0);  }  public BankAccount(String customerName) {  this(0,customerName,0);  }    public BankAccount(int accountNumber, String customerName) {  this(accountNumber,customerName,0);  }  public BankAccount(int accountNumber, String customerName,double accountBalance) {  this.accountBalance =accountBalance;  this.customerName = customerName;  this.accountNumber =accountNumber;  }    public int getAccountNumber() {  return accountNumber;  }  public void setAccountNumber(int accountNumber) {  this.accountNumber = accountNumber;  }  public double getAccountBalance() {  return accountBalance;  }  public void setAccountBalance(double accountBalance) {  this.accountBalance = accountBalance;  }  public double getBalance() {    return accountBalance;  }  public void deposit(double Amount) {  this.accountBalance +=Amount;  }  public void withdraw(double Amount) {  if(this.accountBalance >= Amount) {  this.accountBalance -=Amount;  }  else  System.***out***.println("잔액 부족");  }  public void transfer(BankAccount acct, double Amount) {  if(this.accountBalance >= Amount) {  this.withdraw(Amount);  acct.deposit(Amount);  System.***out***.println("이체 완료");  }  else  System.***out***.println("잔액 부족");  }    *@Override*  public String toString() {  // **TODO** Auto-generated method stub  String info = "계좌 번호 : " + this.accountNumber;  info = info +"\n고객 이름: "+this.customerName;  info =info +"\n계좌 잔액 : "+this.accountBalance;  return info;  }    }  //BankManager.java  package java\_1008;  import java\_1008.BankAccount;  import java.util.Scanner;  public class BankManager {  public static Scanner *scan* =new Scanner(System.***in***);  BankAccount[] accounts;  int account\_count;  public BankManager () {  accounts = new BankAccount[20];  account\_count = 0;  }  public void creat() {  if(account\_count<20) {  int account\_num= 0,money;  String name;  System.***out***.println(account\_count+"번 계좌 생성.");  System.***out***.println("계좌 번호 입력 : ");  account\_num =*scan*.nextInt();  *scan*.nextLine();  System.***out***.println("계좌소유자명 입력 : ");  name = *scan*.nextLine();  System.***out***.println("처음 넣을 금액 입력 : ");  money =*scan*.nextInt();  *scan*.nextLine();  accounts[account\_count] =new BankAccount(account\_num,name,money);  account\_count++;  }  }    public void deposit() {  System.***out***.print("어떤 계좌에서 얼마를 입금하시곘습니까? (num money) : ");  int num;  double money;  num =*scan*.nextInt();  money =*scan*.nextDouble();  num =findAccount(num);  if(num ==100) {  System.***out***.println("게좌번호 입력 오류 ..");  return;  }  accounts[num].deposit(money);    }  public void withdraw() {  System.***out***.print("어떤 계좌에서 얼마를 출금하시곘습니까? (num money) : ");  int num;  double money;  num =*scan*.nextInt();  money =*scan*.nextDouble();  num =findAccount(num);  if(num ==100) {  System.***out***.println("게좌번호 입력 오류 ..");  return;  }  accounts[num].withdraw(money);  }  public void transfer() {  System.***out***.print("어떤 계좌에서 얼마를 어떤계좌로 이체 할까요? (num1 money num2) : ");  int num1,num2;  double money;  num1 =*scan*.nextInt();  money =*scan*.nextDouble();  num2 =*scan*.nextInt();  num1 =findAccount(num1);  num2 =findAccount(num2);  if(num1 ==100| num2==100) {  System.***out***.println("게좌번호 입력 오류 ..");  return;  }  accounts[num1].transfer(accounts[num2], money);  }    public int findAccount(int target) {  int targ = 100;  for(int i=0; i < account\_count;i++) {  if(target == accounts[i].getAccountNumber()) {  targ =i;  break;  }  }    return targ;  }    public String toString() {  String info = "";  int a=0;  for(BankAccount ba: accounts){  if(ba != null)  info += (a++) +"번 계좌 :\n"+ ba.toString() +"\n";  }  return info;  }  }  //testmain.java  package java\_1008;  import java\_1008.BankManager;  import java\_1008.BankAccount;  public class TestMain {  public static void main(String[] args) {  // **TODO** Auto-generated method stub  BankManager bank = new BankManager();  for(int i=0; i<3;i++) {  bank.creat();  }  System.***out***.println(bank.toString());  bank.deposit();  System.***out***.println(bank.toString());  bank.withdraw();  bank.transfer();  System.***out***.println(bank.toString());  }  } |
| **실행결과** |
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