Bean

Account.class

|  |
| --- |
| package com.cg.lab4.bean; |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| public class Account { |
|  |

|  |
| --- |
| private long accNum; |
|  |

|  |
| --- |
| private double balance; |
|  |

|  |
| --- |
| Person accHolder; |
|  |

|  |
| --- |
| public Account(long accNum, double balance, Person accHolder) { |
|  |

|  |
| --- |
| super(); |
|  |

|  |
| --- |
| this.accNum = accNum; |
|  |

|  |
| --- |
| this.balance = balance; |
|  |

|  |
| --- |
| this.accHolder = accHolder; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| public double getBalance() { |
|  |

|  |
| --- |
| return balance; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| public void setBalance(double balance) { |
|  |

|  |
| --- |
| this.balance = balance; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| public Person getAccHolder() { |
|  |

|  |
| --- |
| return accHolder; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| public void setAccHolder(Person accHolder) { |
|  |

|  |
| --- |
| this.accHolder = accHolder; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| public void deposit(double balance) |
|  |

|  |
| --- |
| {this.balance+=balance; |
|  |

|  |
| --- |
| System.out.println("After Deposit:"+this.balance); |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| public void withdraw(double balance) |
|  |

|  |
| --- |
| {this.balance-=balance; |
|  |

|  |
| --- |
| System.out.println("After Withdraw:"+this.balance); |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| public String toString() { |
|  |

|  |
| --- |
| return "Account [accNum=" + accNum + ", balance=" + balance |
|  |

|  |
| --- |
| + ", accHolder=" + accHolder + "]"; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
|  |
|  |

}

Main.java

|  |
| --- |
| package com.cg.lab4.bean; |
|  |

|  |
| --- |
| import java.lang.Math; |
|  |

|  |
| --- |
| import java.util.Scanner; |
|  |

|  |
| --- |
| import java.util.Random; |
|  |

|  |
| --- |
| public class Main { |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| public static void main(String[] args) { |
|  |

|  |
| --- |
| // TODO Auto-generated method stub |
|  |

|  |
| --- |
| Person p1=new Person("smith",21.0f); |
|  |

|  |
| --- |
| Person p2=new Person("Kathy",21.0f); |
|  |

|  |
| --- |
| Random rand=new Random(); |
|  |

|  |
| --- |
| int x=rand.nextInt(10000)+1; |
|  |

|  |
| --- |
| Account a=new Account(x,2000,p1); |
|  |

|  |
| --- |
| int y=rand.nextInt(10000)+1; |
|  |

|  |
| --- |
| if(x==y) |
|  |

|  |
| --- |
| {while(x==y) |
|  |

|  |
| --- |
| { y=rand.nextInt(10000)+1;} |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| Account a1=new Account(y,3000,p2); |
|  |

|  |
| --- |
| System.out.println(a.getBalance()); |
|  |

|  |
| --- |
| a.deposit(2000); |
|  |

|  |
| --- |
| a1.withdraw(2000); |
|  |

|  |
| --- |
| System.out.println(a.getBalance()); |
|  |

|  |
| --- |
| System.out.println(a1.getBalance()); |
|  |

|  |
| --- |
| System.out.println(a.toString()); |
|  |

|  |
| --- |
| System.out.println(a1.toString()); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| } |
|  |

}

Person.java

|  |
| --- |
| package com.cg.lab4.bean; |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| public class Person { |
|  |

|  |
| --- |
| private String name; |
|  |

|  |
| --- |
| private float age; |
|  |

|  |
| --- |
| public Person(String name, float age) { |
|  |

|  |
| --- |
| super(); |
|  |

|  |
| --- |
| this.name = name; |
|  |

|  |
| --- |
| this.age = age; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| public String getName() { |
|  |

|  |
| --- |
| return name; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| public void setName(String name) { |
|  |

|  |
| --- |
| this.name = name; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| public float getAge() { |
|  |

|  |
| --- |
| return age; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| public void setAge(float age) { |
|  |

|  |
| --- |
| this.age = age; |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
|  |
|  |

}

WITHDRAW

Account.java

|  |
| --- |
| package com.cg.lab42.bean; |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| public class Account { |
|  |

|  |
| --- |
| boolean withdraw(int x) |
|  |

|  |
| --- |
| {return true;} |
|  |

|  |
| --- |
| int balance=1000; |
|  |

}

CurrentAccount.java

|  |
| --- |
| package com.cg.lab42.bean; |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| public class CurrentAccount extends Account { |
|  |

|  |
| --- |
| int limit=50000; |
|  |

|  |
| --- |
| boolean b; |
|  |

|  |
| --- |
| boolean withdraw(int limit) |
|  |

|  |
| --- |
| {if(this.limit<limit) |
|  |

|  |
| --- |
| return false; |
|  |

|  |
| --- |
| else |
|  |

|  |
| --- |
| return true; |
|  |

|  |
| --- |
| } |
|  |

}

Main.java

|  |
| --- |
| package com.cg.lab42.bean; |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| public class Main { |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| public static void main(String[] args) { |
|  |

|  |
| --- |
| // TODO Auto-generated method stub |
|  |

|  |
| --- |
| SavingAccount s=new SavingAccount(); |
|  |

|  |
| --- |
| System.out.println(s.withdraw(200)); |
|  |

|  |
| --- |
| CurrentAccount c=new CurrentAccount(); |
|  |

|  |
| --- |
| System.out.println(c.withdraw(2000)); |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
|  |
|  |

}

SavingAccount.java

|  |
| --- |
| package com.cg.lab42.bean; |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| public class SavingAccount extends Account { |
|  |

|  |
| --- |
| final int MINBALANCE=100; |
|  |

|  |
| --- |
| boolean withdraw(int balance) |
|  |

|  |
| --- |
| {if(balance<MINBALANCE) |
|  |

|  |
| --- |
| return false; |
|  |

|  |
| --- |
| else |
|  |

|  |
| --- |
| {super.balance-=balance; |
|  |

|  |
| --- |
| System.out.println("After Withdraw: "+this.balance); |
|  |

|  |
| --- |
| return true;} |
|  |

|  |
| --- |
| } |
|  |

}