**1**

**package** main;

**import** java.text.NumberFormat;

**import** java.util.Scanner;

**public** **class** Account {

//khai báo các thuộc tính

**private** **long** soTK;

**private** String tenTK;

**private** **double** soTienTrongTK;

Scanner sc = **new** Scanner(System.***in***);

//khởi tạo constructor mặc định

**public** Account() {

}

//khởi tạo constructor có tham số

**public** Account(**long** soTK, String tenTK, **double** soTienTrongTK) {

**this**.soTK = soTK;

**this**.tenTK = tenTK;

**this**.soTienTrongTK = soTienTrongTK;

}

**public** **long** getSoTK() {

**return** **this**.soTK;

}

**public** **void** setSoTK(**long** soTK) {

**this**.soTK = soTK;

}

**public** String getTenTK() {

**return** **this**.tenTK;

}

**public** **void** setTenTK(String tenTK) {

**this**.tenTK = tenTK;

}

**public** **double** getSoTienTrongTK() {

**return** **this**.soTienTrongTK;

}

**public** **void** setSoTienTrongTK(**double** soTienTrongTK) {

**this**.soTienTrongTK = soTienTrongTK;

}

@Override

**public** String toString() {

NumberFormat currencyEN = NumberFormat.getcurrencyENInstance();

String str1 = currencyEN.format(soTienTrongTK);

**return** soTK + "-" + tenTK + "-" + str1;

}

//khởi tạo phương thức nạp tiền

**public** **double** napTien() {

**double** nap;

System.***out***.print("Nhap so tien ban muon nap: ");

nap = sc.nextDouble();

//nếu số tiền nạp vào lớn hơn 0 thì hợp lệ

**if** (nap >= 0) {

soTienTrongTK = nap + soTienTrongTK;

NumberFormat currencyEN = NumberFormat.*getCurrencyInstance*();

String str1 = currencyEN.format(nap);

System.***out***.println("ban vua nap " + str1 + " vao tai khoan.");

} **else** {//ngược lại nếu số tiền nộp vào bé hơn 0 thì không hợp lệ

System.***out***.println("So tien nap vao khong hop le!");

}

**return** nap;

}

//khởi tạo phương thức rút tiền

**public** **double** rutTien() {

**double** phi = 5;

**double** rut;

System.***out***.print("Nhap so tien ban can rut: ");

rut = sc.nextDouble();

//nếu số tiền rút bé hơn hoặc bằng số tiền còn trong tài khoản + phí thì hợp lệ

**if** (rut <= (soTienTrongTK - phi)) {

soTienTrongTK = soTienTrongTK - (rut + phi);

NumberFormat currencyEN = NumberFormat.*getCurrencyInstance*();

String str1 = currencyEN.format(rut);

System.***out***.println("Ban vua rut " + str1 + "D tu tai khoan.");

} **else** {//ngược lại nếu số tiền rút lớn hơn số tiền có trong tài khoản thì không hợp lệ

System.***out***.println("So tien muon rut khong hop le!");

**return** rutTien();

}

**return** rut;

}

//khởi tạo phương thức đáo hạn

**public** **double** daoHan() {

**double** laiSuat = 0.035;

soTienTrongTK = soTienTrongTK + soTienTrongTK \* laiSuat;

NumberFormat currencyEN = NumberFormat.*getCurrencyInstance*();

String str1 = currencyEN.format(soTienTrongTK);

System.***out***.println("Ban vua duoc " + str1 + " tu dao han 1");

**return** soTienTrongTK;

}

//khởi tạo phương thức in kết quả ra màn hình

**void** inTK() {

NumberFormat currencyEN = NumberFormat.*getCurrencyInstance*();

String str1 = currencyEN.format(soTienTrongTK);

System.***out***.printf("%-10d %-20s %-20s \n", soTK, tenTK, str1);

}

}

**package** main;

**import** javpackage main;

**import** java.util.Scanner;

**public** **class** test {

**static** Scanner *sc* = **new** Scanner(System.***in***);

**static** **void** nhapTK(Account tk) {

System.***out***.println("Nhap so tai khoan: ");

tk.setSoTK(*sc*.nextInt());

*sc*.nextLine();

System.***out***.println("Nhap ten tai khoan: ");

tk.setTenTK(*sc*.nextLine());

tk.setSoTienTrongTK(50);

}

**public** **static** **void** main(String[] args) {

Account a[] = **null**;

**int** k, b, n = 0;

**long** s, d, c, f;

**boolean** flag = **true**;

**do** {

System.***out***.println("Ban chon lam gi: ");

System.***out***.println("1.Nhap thong tin cua cac khach hang\n"

+ "2.Xuat danh sach thong tin cua cac khach hang\n" + "3.Nap tien\n" + "4.Rut tien\n"

+ "5.Dao han\n" + "6.Chuyen khoan\n" + "So khac de thoat");

b = *sc*.nextInt();

**switch** (b) {

**case** 1:

System.***out***.println("Nhap so luong khach hang ban muon nhap: ");

n = *sc*.nextInt();

a = **new** Account[n];

**for** (**int** i = 0; i < n; i++) {

System.***out***.println("Khach hang so: " + (i+1));

a[i] = **new** Account();

*nhapTK*(a[i]);

}

**break**;

**case** 2:

System.***out***.printf("%-10s %-20s %-20s\n", "So TK", "Ten TK", "So tien trong TK");

**for** (**int** i = 0; i < n; i++) {

a[i].inTK();

}

**break**;

**case** 3:

System.***out***.println("Nhap so tai khoan khach hang can nap tien: ");

s = *sc*.nextLong();

**for** (**int** i = 0; i < n; i++) {

d = a[i].getSoTK();

**if** (s == d) {

System.***out***.println("Ban chon tai khoan: " + d);

a[i].napTien();

} **else** {

System.***out***.println("");

}

}

**break**;

**case** 4:

System.***out***.println("Nhap so tai khoan khach hang can rut tien: ");

s = *sc*.nextLong();

**for** (**int** i = 0; i < n; i++) {

d = a[i].getSoTK();

**if** (s == d) {

System.***out***.println("Ban chon tai khoan: " + d);

a[i].rutTien();

}

}

**break**;

**case** 5:

System.***out***.println("Nhap so tai khoan khach hang can dao han: ");

s = *sc*.nextLong();

**for** (**int** i = 0; i < n; i++) {

d = a[i].getSoTK();

**if** (s == d) {

System.***out***.println("Ban chon tai khoan: " + d);

a[i].daoHan();

} **else** {

System.***out***.println("");

}

}

**break**;

**case** 6:

**double** chuyen,

nhan,

tienChuyen;

System.***out***.print("Nhap so tai khoan khach hang chuyen tien: ");

s = *sc*.nextLong();

System.***out***.print("Nhap so tai khoan khach hang nhan tien: ");

c = *sc*.nextLong();

**for** (**int** i = 0; i < n; i++) {

d = a[i].getSoTK();

**if** (s == d) {

chuyen = a[i].getSoTienTrongTK();

**for** (**int** j = 0; j < n; j++) {

f = a[j].getSoTK();

**if** (c == f) {

nhan = a[j].getSoTienTrongTK();

System.***out***.println("Nhap so tien can chuyen");

tienChuyen = *sc*.nextDouble();

**if** (tienChuyen <= chuyen) {

chuyen = chuyen - tienChuyen;

nhan = nhan + tienChuyen;

a[i].setSoTienTrongTK(chuyen);

a[j].setSoTienTrongTK(nhan);

System.***out***.println("Tai khoan so " + d + " vua chuyen: $" + tienChuyen);

System.***out***.println("Tai khoan so " + f + " vua nhan: $" + tienChuyen);

} **else** {

System.***out***.println("So tien nhap khong hop le!");

}

} **else** {

System.***out***.println("");

}

}

} **else** {

System.***out***.println("");

}

}

**break**;

**default**:

System.***out***.println("Bye!!");

flag = **false**;

**break**;

}

} **while** (flag);

}

}a.util.Scanner;

**public** **class** test {

**static** Scanner sc = **new** Scanner(System.in);

**static** **void** nhapTK(Account tk) {

System.out.println("Nhap so tai khoan: ");

tk.setSoTK(sc.nextInt());

sc.nextLine();

System.out.println("Nhap ten tai khoan: ");

tk.setTenTK(sc.nextLine());

tk.setSoTienTrongTK(50);

}

**public** **static** **void** main(String[] args) {

Account a[] = **null**;

**int** k, b, n = 0;

**long** s, d, c, f;

**boolean** flag = **true**;

**do** {

System.out.println("Ban chon lam gi: ");

System.out.println("1.Nhap thong tin cua cac khach hang\n"

+ "2.Xuat danh sach thong tin cua cac khach hang\n" + "3.Nap tien\n" + "4.Rut tien\n"

+ "5.Dao han\n" + "6.Chuyen khoan\n" + "So khac de thoat");

b = sc.nextInt();

**switch** (b) {

**case** 1:

System.out.println("Nhap so luong khach hang ban muon nhap: ");

n = sc.nextInt();

a = **new** Account[n];

**for** (**int** i = 0; i < n; i++) {

System.out.println("Khach hang so: " + (i+1));

a[i] = **new** Account();

nhapTK(a[i]);

}

**break**;

**case** 2:

System.out.printf("%-10s %-20s %-20s\n", "So TK", "Ten TK", "So tien trong TK");

**for** (**int** i = 0; i < n; i++) {

a[i].inTK();

}

**break**;

**case** 3:

System.out.println("Nhap so tai khoan khach hang can nap tien: ");

s = sc.nextLong();

**for** (**int** i = 0; i < n; i++) {

d = a[i].getSoTK();

**if** (s == d) {

System.out.println("Ban chon tai khoan: " + d);

a[i].napTien();

} **else** {

System.out.println("");

}

}

**break**;

**case** 4:

System.out.println("Nhap so tai khoan khach hang can rut tien: ");

s = sc.nextLong();

**for** (**int** i = 0; i < n; i++) {

d = a[i].getSoTK();

**if** (s == d) {

System.out.println("Ban chon tai khoan: " + d);

a[i].rutTien();

}

}

**break**;

**case** 5:

System.out.println("Nhap so tai khoan khach hang can dao han: ");

s = sc.nextLong();

**for** (**int** i = 0; i < n; i++) {

d = a[i].getSoTK();

**if** (s == d) {

System.out.println("Ban chon tai khoan: " + d);

a[i].daoHan();

} **else** {

System.out.println("");

}

}

**break**;

**case** 6:

**double** chuyen,

nhan,

tienChuyen;

System.out.print("Nhap so tai khoan khach hang chuyen tien: ");

s = sc.nextLong();

System.out.print("Nhap so tai khoan khach hang nhap tien: ");

c = sc.nextLong();

**for** (**int** i = 0; i < n; i++) {

d = a[i].getSoTK();

**if** (s == d) {

chuyen = a[i].getSoTienTrongTK();

**for** (**int** j = 0; j < n; j++) {

f = a[j].getSoTK();

**if** (c == f) {

nhan = a[j].getSoTienTrongTK();

System.out.println("Nhap so tien can chuyen");

tienChuyen = sc.nextDouble();

**if** (tienChuyen <= chuyen) {

chuyen = chuyen - tienChuyen;

nhan = nhan + tienChuyen;

a[i].setSoTienTrongTK(chuyen);

a[j].setSoTienTrongTK(nhan);

System.out.println("Tai khoan so " + d + " vua chuyen: $" + tienChuyen);

System.out.println("Tai khoan so " + f + " vua nhan: $" + tienChuyen);

} **else** {

System.out.println("So tien nhap khong hop le!");

}

} **else** {

System.out.println("");

}

}

} **else** {

System.out.println("");

}

}

**break**;

**default**:

System.out.println("Bye!!");

flag = **false**;

**break**;

}

} **while** (flag);

}

}

**2**

**package** main;

**public** **class** Album {

//khai báo các thuộc tính

**private** **int** maCD;

**private** String tenCD;

**private** **int** soBH;

**private** **float** giaThanh;

//khởi tạo constructor mặc định

**public** Album() {

}

//khởi tạo constructor có tham số

**public** Album(**int** cD, String tenCD, **int** soBH, **float** giaThanh) {

**this**.maCD = maCD;

**this**.tenCD = tenCD;

**this**.soBH = soBH;

**this**.giaThanh = giaThanh;

}

**public** **int** getMaCD() {

**return** maCD;

}

**public** **void** setMaCD(**int** maCD) {

**this**.maCD = maCD;

}

**public** String getTenCD() {

**return** tenCD;

}

**public** **void** setTenCD(String tenCD) {

**this**.tenCD = tenCD;

}

**public** **int** getSoBH() {

**return** soBH;

}

**public** **void** setSoBH(**int** soBH) {

**this**.soBH = soBH;

}

**public** **float** getGiaThanh() {

**return** giaThanh;

}

**public** **void** setGiaThanh(**float** giaThanh) {

**this**.giaThanh = giaThanh;

}

@Override

**public** String toString() {

**return** "Album{" +

"cD=" + maCD +

", tenCD='" + tenCD + ''' +

", soBH=" + soBH +

", giaThanh=" + giaThanh +

'}';

}

//khởi tạo phương thức hiện thị theo format

**public** **void** hienThiAlbum(){

System.***out***.printf("%-10d %-20s %-10d %-20.1f \n",maCD,tenCD,soBH,giaThanh);

}

}

**package** main;

**import** java.security.spec.RSAOtherPrimeInfo;

**import** java.util.Scanner;

**public** **class** Main {

**static** Scanner *sc* = **new** Scanner(System.***in***);

**static** **void** nhapAlbum(Album ab) {

System.***out***.print("Nhap ma CD: ");

ab.setMaCD(*sc*.nextInt());

*sc*.nextLine();

System.***out***.print("Nhap ten CD : ");

ab.setTenCD(*sc*.nextLine());

System.***out***.print("Nhap so luong bai hat : ");

ab.setSoBH(*sc*.nextInt());

System.***out***.print("Nhap gia thanh : ");

ab.setGiaThanh(*sc*.nextFloat());

}

**public** **static** **void** main(String[] args) {

Album alb[] = **null**;

**int** a, n = 0;

**boolean** flag = **true**;

**do** {

System.***out***.println("Ban chon lam gi :");

System.***out***.println("1.Nhap thong tin CD \n" +

"2.Xuat danh sach Album.\n" + "3.Tinh tong gia thanh \n" + "4.Tong so luong CD \n" +

"5.Sap xep giam dan theo gia thanh\n"+"6.Sap xep tang dan theo tua CD\n"+"Nhap so khac de thoat");

a = *sc*.nextInt();

**switch** (a) {

**case** 1:

System.***out***.println("Nhap so luong CD : ");

n = *sc*.nextInt();

alb = **new** Album[n];

**for** (**int** i = 0; i < n; i++) {

System.***out***.println("CD thu " + (i + 1)+": ");

alb[i] = **new** Album();

*nhapAlbum*(alb[i]);

}

**break**;

**case** 2:

System.***out***.printf("%-10s %-20s %-10s %-20s \n", "Ma CD", "Ten CD", "So bai hat", "Gia thanh");

**for** (**int** i = 0; i < n; i++) {

alb[i].hienThiAlbum();

}

**break**;

**case** 3:

**int** tong = 0;

**for** (**int** i = 0; i < n; i++) {

tong += alb[i].getGiaThanh();

}

System.***out***.println("" +

"Tong gia thanh la : " + tong);

**break**;

**case** 4:

System.***out***.println("Tong so luong CD la : " + n);

**break**;

**case** 5:

Album temp = alb[0];

**for** (**int** i = 0; i < n - 1; i++) {

**for** (**int** j = i + 1; j < n; j++) {

**if** (alb[i].getGiaThanh() < alb[j].getGiaThanh()) {

temp = alb[j];

alb[j] = alb[i];

alb[i] = temp;

}

}

}

System.***out***.println("Sap xep thanh cong!");

**break**;

**case** 6:

temp = alb[0];

**for** (**int** i = 0; i < n - 1; i++) {

**for** (**int** j = i + 1; j < n; j++) {

**if** (alb[i].getTenCD().compareTo(alb[j].getTenCD())>0) {

temp = alb[j];

alb[j] = alb[i];

alb[i] = temp;

}

}

}

System.***out***.println("Sap xep thanh cong !");

**break**;

**default**:

System.***out***.println("Bye");

flag = **false**;

**break**;

}

}**while** (flag) ;

}

}