



**DORIXONALAR HAQIDAGI MA'LUMOTLARNI SAQLOVCHI
DASTUR**

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***Annotatsiya:** Bu dastur dorixonalarining malumotlarini saralash ya saqlash uchun.*

***Kalit so'zlar:** Java, obyekt, dorixona va OYD.*

Javada yozilgan barcha dasturlar obyektga yo'naltirilgan dasturlash (OYD) asosida tuziladi. Ya'ni, Java tilin qat'iy OYD tili debsak ham bo'ladi. OYD-bu dasturlarni, belgili bitta sinfnig ekzemplari bo'ladi, obyektlarning yig'indisi sifatida tasvirlanuvchi dasturlash metodologiyasi hisoblanadi

Sinf ichida o'zgaruvchilari 3 turda bo'lishi mumkin :

1. Lokal o'zgaruvchilar, metodlar yoki konstruktorlar ichida tavsiflangan bo'lib, faqatgina metod ichida ko'rinadi. Metod ishini to'xtatqan vaqtda o'zgaruvchilar o'chiriladi.

2. Ekzemplar o'zgaruvchilar, sinf ichidagi o'zgaruvchilar bo'lib, ushbu sinf ichidagi xohlagan metod yoki konstruktor ichida foydalanishga bo'ladi.

3. Sinfnig statik o'zgaruvchilari, sinf ichida va metod sirtida statik kalit so'zlar orqali tavsiflanadigan o'zgaruvchilar.

Obyektke yo'naltirilgan dasturlashding asosiy 4 prinsipi :

1. Miyras;
2. Abstraktciya;
3. Inkapsulyaciya;
4. Polimorfizm.

Dasturni yaratish uchun avval biz orixonalar haqidagi ma'lumotlarni saqlovchi sinf yaraib olamiz va uning ichida quydagilar bo'ladi: Dorixona ismi, manzili, dorilarning o'rtacha bahosi.

Dasturda sinf obyektini massivini yaratib, to'ldirib va quyidagi amallardi bajaradi:



- Dorilarning o'rtacha bahosi kiritilgan summadan quyi bo'lgan dorixonalar ro'yxati;
- Kiritilgan manzildagi dorixonalar ro'yxati ;
- Dori baholarining o'rtacha bahosi bo'yicha kamish tartibida joylashtirish.

Dastlab asosiy sinfni yaratamiz :

```
1 import java.util.Scanner;
2
3
4
5 public class Apteka {
6     private String ati;
7     private String manzili;
8     private int darilerdin_ortasha_bahasi;
9     public Apteka(String ati, String manzili,int darilerdin_ortasha_bahasi){
10         this.ati = ati;
11         this.manzili = manzili;
12         this.darilerdin_ortasha_bahasi= darilerdin_ortasha_bahasi;
13     }
14     public Apteka(){
15         Scanner in=new Scanner(System.in);
16         System.out.print("Apteka ati: ");
17         this.setAti(in.nextLine());
18         System.out.print("manzili: ");
19         this.setManzili(in.nextLine());
20         System.out.print("darilerdin_ortasha_bahasi: ");
21         this.setDarilerdin_ortasha_bahasi(in.nextInt());
22     }
23     @Override
24     public String toString(){
25         return String.format("Apteka: %s \t manzili: %s \t darilerdin_ortasha_bahasi: %d", ati, manzili, darilerdin_ortasha_bahasi);
26     }
27     public String getAti(){ return this.ati;}
28     public String getManzili(){ return this.manzili;}
29     public int getDarilerdin_ortasha_bahasi(){ return this.darilerdin_ortasha_bahasi;}
30
31     public void setAti(String value){
32         if (value.isEmpty())
33             System.out.println("Qate manis kiritildi!");
34         else
35             this.ati = value;
36     }
37 }
```

Songra ma'lumotlarni saqlovchi sinf:
Ma'lumotlarni qayta tiklovchi sinf:

```
35     public void biggerThanAvgSquareList(){
36         System.out.println("\nDarilerdin ortasha bahasidan en tomen bolgan darixanalar:");
37         double ortasha = averageSquare();
38         int j = 0;
39         for (Apteka m : apteka) {
40             if ((m.getDarilerdin_ortasha_bahasi()<ortasha)) {
41                 System.out.println(++j + ". " + m);
42             }
43         }
44         System.out.println();
45     }
46     public void minSquareCountry(){
47         int pos_min =0;
48         for (int i = 1; i < apteka.length; i++)
49             if (apteka[i].getDarilerdin_ortasha_bahasi() < apteka[pos_min].getDarilerdin_ortasha_bahasi()) {
50                 pos_min=i;
51             }
52         System.out.println("\n :Darilerdin ortasha bahasidan en tomen bolgan darixanalar");
53         System.out.println(apteka[pos_min]);
54         System.out.println();
55     }
56
57     public void sortByPopulation () {
58         for (int i = 0; i < apteka.length-1; i++)
59             for (int j = 0; j < apteka.length-1-i; j++)
60                 if (apteka[j].getDarilerdin_ortasha_bahasi() < apteka[j+1].getDarilerdin_ortasha_bahasi()){
61                     Apteka temp = apteka[j];
62                     apteka[j] = apteka[j+1];
63                     apteka[j+1] = temp;
64                 }
65         printCountry();
66     }
67
68
69
70 }
```



```

JavaApplication114 - NetBeans IDE 8.0.2
Файл Правка Вид Переход Источники Реорганизация кода Выполнить Отладка Профилировать Группы Сервис: Окно Справка
<настройка по умолчанию>
Проект: JavaApplication114
Источники
1
2 import java.util.Scanner;
3
4
5 public class Aptekaaa {
6     private Apteka[] apteka = {
7         new Apteka("BesQala", "Nokis", 10000),
8         new Apteka("Alimbay", "Orayliq bazar", 20000)
9     };
10
11     public void fillCountry() {
12         System.out.print("Apteka sanin kiritin: ");
13         int n = new Scanner(System.in).nextInt();
14         apteka = new Apteka[n];
15         System.out.println("Apteka haqqindagi informaciyalardi kiritin: ");
16         for (int i = 0; i < apteka.length; i++) {
17             System.out.println((i+1)+"-Apteka: ");
18             apteka[i] = new Apteka();
19         }
20     }
21
22     public void printCountry() {
23         System.out.println("\nAptekalar:");
24         for (int i = 0; i < apteka.length; i++)
25             System.out.println((i+1) + ". " + apteka[i]);
26         System.out.println();
27     }
28
29     public double averageSquare() {
30         double sumSquare = 0;
31         for (Apteka m : apteka) {
32             sumSquare += m.getDarilerdin_ortasha_bahasi();
33         }
34         if (apteka.length > 0) return sumSquare / apteka.length;
35         return -1;
36     }
37
38     public void biggerThanAvgSquareList() {
39         System.out.println("\nDarilerdin ortasha bahasidan en tomen bolgan darixanalar:");
40     }
41 }

```

Natija:

```

JavaApplication114 - NetBeans IDE 8.0.2
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JavaApplication14 - NetBeans IDE 8.02
Файл Проект Вид Переход Источник Реорганизация кода Выпущеный Отладка Профилирование Группы Сервис Одино Страница
...
Name: JavaApplication14 (run)
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1. Aptekalardi kiritiw
2. Kiritilgen aptekadi ekranga shigariw
3. Darilerdin ortasha bahasinin kishi bolgan aptekani aniqlaw
4. Darilerdin bahasi boyinsha kemeyiw tartibinde sortirovkalaw
5. Apteka ati boyinsha sortirovka qiliw
6. Shigiw
(1..6) araligindagi punktlerden birin saylan
1
Apteka sanin kiritin: 2
Apteka haqqindagi informaciyalardi kiritin:
1. Apteka:
Apteka ati: Bes Qala
manzili: Nokis
darilerdin_ortasha_bahasi: 77000
2. Apteka:
Apteka ati: Alimbay
manzili: Orayliq bazar
darilerdin_ortasha_bahasi: 88000
darilerdin_ortasha_bahasi: 88000
1. Aptekalardi kiritiw
2. Kiritilgen aptekadi ekranga shigariw
3. Darilerdin ortasha bahasinin kishi bolgan aptekani aniqlaw
4. Darilerdin bahasi boyinsha kemeyiw tartibinde sortirovkalaw
5. Apteka ati boyinsha sortirovka qiliw
6. Shigiw
(1..6) araligindagi punktlerden birin saylan

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JavaApplication14 - NetBeans IDE 8.02
Файл Проект Вид Переход Источник Реорганизация кода Выпущеный Отладка Профилирование Группы Сервис Одино Страница
...
Name: JavaApplication14 (run)
1
6. SHIGIW
(1..6) araligindagi punktlerden birin saylan
4
:Darilerdin ortasha bahasinin en tomen bolgan darisalanar
Apteka: Bes Qala      manzili: Nokis      darilerdin_ortasha_bahasi: 77000

1. Aptekalardi kiritiw
2. Kiritilgen aptekadi ekranga shigariw
3. Darilerdin ortasha bahasinin kishi bolgan aptekani aniqlaw
4. Darilerdin bahasi boyinsha kemeyiw tartibinde sortirovkalaw
5. Apteka ati boyinsha sortirovka qiliw
6. Shigiw
(1..6) araligindagi punktlerden birin saylan
5
Aptekalar:
1. Apteka: Alimbay      manzili: Orayliq bazar      darilerdin_ortasha_bahasi: 88000
2. Apteka: Bes Qala    manzili: Nokis      darilerdin_ortasha_bahasi: 77000

1. Aptekalardi kiritiw
2. Kiritilgen aptekadi ekranga shigariw
3. Darilerdin ortasha bahasinin kishi bolgan aptekani aniqlaw
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5. Apteka ati boyinsha sortirovka qiliw
6. Shigiw
(1..6) araligindagi punktlerden birin saylan

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JavaApplication14 - NetBeans IDE 8.02
Файл Проект Вид Переход Источник Реорганизация кода Выпущеный Отладка Профилирование Группы Сервис Одино Страница
...
Name: JavaApplication14 (run)
1
3. Darilerdin ortasha bahasinin kishi bolgan aptekani aniqlaw
4. Darilerdin bahasi boyinsha kemeyiw tartibinde sortirovkalaw
5. Apteka ati boyinsha sortirovka qiliw
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(1..6) araligindagi punktlerden birin saylan
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Aptekalar:
1. Apteka: Alimbay      manzili: Orayliq bazar      darilerdin_ortasha_bahasi: 88000
2. Apteka: Bes Qala    manzili: Nokis      darilerdin_ortasha_bahasi: 77000

1. Aptekalardi kiritiw
2. Kiritilgen aptekadi ekranga shigariw
3. Darilerdin ortasha bahasinin kishi bolgan aptekani aniqlaw
4. Darilerdin bahasi boyinsha kemeyiw tartibinde sortirovkalaw
5. Apteka ati boyinsha sortirovka qiliw
6. Shigiw
(1..6) araligindagi punktlerden birin saylan

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Natijada barcha vazifalar orinlanadi va dorixonalar tog'risidagi ma'lumotlar yig'ladi va ular haqqida ma'lumotlar ishlay boshlaydi. Dastur Java dasturlash tilida yozilgan bo'lib ma'lumotlarni saqlash uchun.

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