

eclipse-workspace - HelloWorldProj/src/day6\_collections/StreamDemo.java - Eclipse IDE

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Flatmap.java StreamDemo.java X

```
1 package day6_collections;
2
3 import java.util.ArrayList;
4
5
6 public class StreamDemo {
7
8     public StreamDemo() {
9         // TODO Auto-generated constructor stub
10    }
11
12    public static void main(String[] args) {
13        List<String> s1=new ArrayList<String>();
14        s1.add("ABCDEF6");
15        s1.add("HIJKLMNQP");
16        s1.add("LMNOPQ");
17        s1.add("QRST");
18        s1.add("UVW");
19        s1.add("WX&Y&Z");
20        s1.stream().filter(s->s.length()>5&&s.length()<8).forEach(s->System.out.println(s));
21    }
22 }
23
```

Markers Properties Servers Data Source Explorer Snippets Terminal Console X Error Log

<terminated> StreamDemo [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (05-Feb-2023, 9:45:39 pm - 9:45:39 pm) [pid: 8056]

ABCDEF6  
LMNOPQ  
WX&Y&Z

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21:45

Project Explorer X

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  - ▼ JDBC\_Demo [JDBC\_Demo master]

```
27         this.salary = salary;
28         return true;
29     }
30     public Employee(int id, String name, double salary) {
31         super();
32         this.id = id;
33         this.name = name;
34         this.salary = salary;
35     }
36     @Override
37     public String toString() {
38         return "Employee [id=" + id + ", name=" + name + ", salary=" + salary + "]";
39     }
40 }
41
42 public class MapDemo {
43
44     public MapDemo() {
45         // TODO Auto-generated constructor stub
46     }
47
48     public static void main(String[] args) {
49         // TODO Auto-generated method stub
50         List<Employee> e1=new ArrayList<Employee>();
51         List<Employee> e2=new ArrayList<Employee>();
52         e1.add(new Employee(101,"ABCD",15000));
53         e1.add(new Employee(102,"EFGH",16000));
54         e1.add(new Employee(103,"IJKL",17000));
55         e1.add(new Employee(104,"MNOP",18000));
56         e1.add(new Employee(105,"QRST",19000));
57         e2=e1.stream().map(e->new Employee(e.getId(),e.getName(),e.getSalary()*1.1)).collect(Collectors.toList());
58         e1.forEach(n->System.out.println(n));
59         e2.forEach(n->System.out.println(n));
60
61     }
62
63 }
64
65 }
```

Console X

```
<terminated> MapDemo [Java Application] C:\Program Files\Java\jdk-11.0.10\bin\java.exe
Employee [id=101, name=ABCD, salary=16500.0]
Employee [id=102, name=EFGH, salary=17600.0]
Employee [id=103, name=IJKL, salary=18700.0]
Employee [id=104, name=MNOP, salary=19800.0]
Employee [id=105, name=QRST, salary=20900.0]
```

Markers Properties Servers Data Source Explorer Snippets Terminal Error Log X

Workspace Log

type filter text

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Project Explorer ×

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  - JDBC\_Demo [JDBC\_Demo master]

Flatmap.java × StreamDemo.java

```
41
42 public class Flatmap {
43
44     public Flatmap() {
45         // TODO Auto-generated constructor stub
46     }
47
48     public static void main(String[] args) {
49         List<Product> p1=new ArrayList<Product>();
50         List<Product> p2=new ArrayList<Product>();
51         List<Product> p3=new ArrayList<Product>();
52         p1.add(new Product(101,"HP Laptop",25000));
53         p1.add(new Product(102,"Samsung Laptop",25000));
54         p1.add(new Product(103,"Lenovo Laptop",25000));
55         p2.add(new Product(201,"Samsung Headphone",2500));
56         p2.add(new Product(202,"Boat Headphone",2500));
57         p2.add(new Product(203,"Lenovo Headphone",2500));
58         p3.add(new Product(301,"Samsung Phone",40500));
59         p3.add(new Product(302,"Iphone",85000));
60         p3.add(new Product(303,"Moto Phone",25000));
61         List<List<Product>> p=new ArrayList<List<Product>>();
62         p.add(p1);
63         p.add(p2);
64         p.add(p3);
65         // p.stream().flatMap(n->n.stream()).map(t->{System.out.println(t.getName());return t;}).collect(Collectors.toList());
66         p.stream().flatMap(n->n.stream()).map(t->t.getName()).forEach(s->System.out.println(s));
67
68     }
69 }
70
```

Markers Properties Servers Data Source Explorer Snippets Terminal Console × Error Log

&lt;terminated&gt; Flatmap [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (05-Feb-2023, 9:46:00 pm - 9:46:00 pm) [pid: 16628]

```
HP Laptop
Samsung Laptop
Lenovo Laptop
Samsung Headphone
Boat Headphone
Lenovo Headphone
Samsung Phone
Iphone
Moto Phone
```

Writable

Smart Insert

53 : 17 : 1080