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19-may-2022         STREAM API-JAVA8
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package Java8Features;
import java.util.ArrayList;
class Product
{
    int id;
    String name;
    double price;
    public Product(int id, String name, double price) {
        super();
        this.id = id;
        this.name = name;
        this.price = price;
    }

}
public class StreamTestProduct {

    public static void main(String[] args) {
    ArrayList<Product> al=new ArrayList<Product>();
    al.add(new Product(1,"Dell Laptop",45000.2));
    al.add(new Product(2,"HP Laptop",55000.2));
    al.add(new Product(3,"LENOVA Laptop",25000.2));
    al.add(new Product(4,"APPLE Laptop",90000.2));
    al.stream()
    .filter(p->p.id>=2)
    .forEach(p->System.out.println(p.name));


    }

}
OUTPUT:
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```

```
HP Laptop
LENOVA Laptop
APPLE Laptop
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2.THE TASK IS TO COLLECT THE NEGATIVE EVEN NUMBERS FROM THE
GIVEN ARRAYLIST AND STORE THE VALUES INTO NEW ARRAY;LIST
BY USING FILTER AND COLLECTOR METHOD.

package Java8Features;
import java.util.Arrays;
import java.util.List;
import java.util.stream.Collectors;

public class StreamTest1 {

    public static void main(String[] args) {
        List<Integer> al=Arrays.asList(1,-2,3,4,-6,-5,-4);
        List<Integer>nl=al.stream()
        .filter(p->((p<0)&&(p%2==0)))
        .collect(Collectors.toList());
         System.out.println(nl);
    }

}
OUTPUT:
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[-2, -6, -4]
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3.GET AN EMPLOYEE DEATAILS AND SET THE LOCATION AS PUNE
AND PRINT THE RESPECTIVE EMPLOYEE DETAILS


 package Java8Features;

import java.util.ArrayList;
```

```
import java.util.List;
import java.util.stream.Collector;
import java.util.stream.Collectors;

class EmployeeTest
 {
     int empNo;
     String name;
     int age;
     String location;
    public EmployeeTest(int empNo, String name, int age, String location) {
        super();
        this.empNo = empNo;
        this.name = name;
        this.age = age;
        this.location = location;
    }
    @Override
    public String toString() {
        return "EmployeeTest [empNo=" + empNo + ", name=" + name + ", age=" + age +
        ", location=" + location
                +"]";
    }

 }
public class StreamEmployeeTest {
    public static void main(String[] args) {
        ArrayList<EmployeeTest> al=new ArrayList<EmployeeTest>();
        al.add(new EmployeeTest(1,"Abimanu",21,"mumbai"));
        al.add(new EmployeeTest(2,"Beema",23,"mangalore"));
        al.add(new EmployeeTest(3,"mukesh",22,"chennai"));
        al.add(new EmployeeTest(4,"sakthi",24,"pune"));
        al.add(new EmployeeTest(5,"buvi",25,"pune"));
       ArrayList ls=(ArrayList)al.stream()
        .filter(e->e.location=="pune")
        .collect(Collectors.toList());
```

```
        ls.forEach(System.out::println);

    }

}
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OUTPUT:
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EmployeeTest [empNo=4, name=sakthi, age=24, location=pune]
EmployeeTest [empNo=5, name=buvi, age=25, location=pune]
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3.FILTER THE PASS MARK STUDENT WHOSE MARKS IS 50 AND ABOVE
SOLVE THIS PROBLEM BY USING COUNT AND FILTER METHOD.

package Java8Features;

import java.util.ArrayList;
import java.util.stream.Collectors;

class StudentTest
{
    int roll;
    String name;
    int mark;
    public StudentTest(int roll, String name, int mark) {
        super();
        this.roll = roll;
        this.name = name;
        this.mark = mark;
    }

}
public class StreamStudentTest {

    public static void main(String[] args)
```

```
    {
        ArrayList<StudentTest> al=new ArrayList<StudentTest>();
        al.add(new StudentTest(1, "mukesh", 95));
        al.add(new StudentTest(2, "logesh", 98));
        al.add(new StudentTest(3, "lite mukesh", 100));
        al.add(new StudentTest(4, "tej", 45));
        al.add(new StudentTest(5, "mehck", 46));
       Long ls= al.stream()
        .filter(s->s.mark>50)
        .collect(Collectors.counting());
       System.out.println(ls);
    }

}
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 OUTPUT :
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 3
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```