StreamAPI

1. Create a Student class with

Instance variables: rollNo, name, mark.

A parameterized constructor to initialize them.

Write a program

To add five Student objects into and ArrayList,

Filter the Student objects who have cleared the test with minimum 50 marks,

Get the count of how many have cleared and print it.

**Source Code:**

import java.util.\*;

import java.util.stream.\*;

class Student {

    int rollNo;

    String name;

    int marks;

    Student(int rollNo, String name, int marks) {

        this.rollNo = rollNo;

        this.name = name;

        this.marks = marks;

    }

    public String toString() {

        return "RollNo: " + rollNo + ", Name: " + name + ", Mark: " + marks;

    }

}

public class TestPassCount {

    public static void main(String[] args) {

        ArrayList<Student> studentList = new ArrayList<>();

        studentList.add(new Student(1, "Vinnu", 75));

        studentList.add(new Student(2, "Chinnu", 90));

        studentList.add(new Student(3, "Bunny", 56));

        studentList.add(new Student(4, "Sunny", 33));

        studentList.add(new Student(5, "Ssn", 90));

        List<Student> passedStudents = studentList.stream()

            .filter(s -> s.marks >= 50)

            .collect(Collectors.toList());

        System.out.println("Students who passed the exam :");

        passedStudents.forEach(System.out::println);

        int count = passedStudents.size();

        System.out.println("Total no of students passed: " + count);

    }

}

**Output:**

Students who passed the exam :

RollNo: 1, Name: Vinnu, Mark: 75

RollNo: 2, Name: Chinnu, Mark: 90

RollNo: 3, Name: Bunny, Mark: 56

RollNo: 5, Name: Ssn, Mark: 90

Total no of students passed: 4