

1	You are given a list of Students as StudentList,	
2	Your task is to find out the number of students in each department	
3		
4	Sample Output:	
5	-----	
6	Cyber Security : 2	
7	Artificial Intelligence : 5	
8	Computer Science : 3	
9	Machine Learning : 2	
10	Information Technology : 3	
11	Humanties and Sciences : 2	
12		
13		
14		
15	The Student class looks like this:	
16	-----	
17	class Student	
18	{	
19	int id;	
20	String name;	
21	int age;	
22	String gender;	
23	String department;	
24	int yearOfJoining;	
25		
26	public Student(int id, String name, int age, String gender, String department, int yearOfJoining )	
27	{	
28	this.id = id;	
29	this.name = name;	
30	this.age = age;	
31	this.gender = gender;	
32	this.department = department;	
33	this.yearOfJoining = yearOfJoining;	
34	}	
35		
36	public int getId()	
37	{	
38	return id;	
39	}	
40		
41	public String getName()	
42	{	
43	return name;	
44	}	
45		
46	public int getAge()	
47	{	
48	return age;	
49	}	
50		
51	public String getGender()	
52	{	
53	return gender;	
54	}	
55		
56	public String getDepartment()	
57	{	
58	return department;	
59	}	
60		
61	public int getYearOfJoining()	
62	{	
63	return yearOfJoining;	
64	}	
65		
66	@Override	
67	public String toString()	
68	{	
69	return "Id : "+id	
70	+", Name : "+name	
71	+", Age : "+age	
72	+", Gender : "+gender	
73	+", Department : "+department	
74	+", Year Of Joining : "+yearOfJoining;	
75	}	
76	}	

## Solution.java

1	class Solution{	
2	public void countOfStudentsInDepartments(List<Student> StudentList){	
3	//Implement your code here	
4	}	
5	}	

## Execution files

### vpl\_evaluate.cases

1	case =1	
2	output =Cyber Security : 2	
3	Artificial Intelligence : 5	
4	Computer Science : 3	
5	Machine Learning : 2	
6	Information Technology : 3	
7	Humanties and Sciences : 2	
8		

## Main.java

```

1 import java.util.*;
2 import java.util.stream.Collectors;
3 class Main{
4     public static void main(String args[]){
5         List<Student> StudentList = new ArrayList<Student>();
6         StudentList.add(new Student(111, "Jiya Brein", 32, "Female", "Humanties and Sciences", 2011));
7         StudentList.add(new Student(122, "Paul Niksui", 25, "Male", "Computer Science", 2015));
8         StudentList.add(new Student(133, "Martin Theron", 29, "Male", "Information Technology", 2012));
9         StudentList.add(new Student(144, "Murali Gowda", 28, "Male", "Artificial Intelligence", 2014));
10        StudentList.add(new Student(155, "Nima Roy", 27, "Female", "Humanties and Sciences", 2013));
11        StudentList.add(new Student(166, "Iqbal Hussain", 43, "Male", "Cyber Security", 2016));
12        StudentList.add(new Student(177, "Manu Sharma", 35, "Male", "Machine Learning", 2010));
13        StudentList.add(new Student(188, "Wang Liu", 31, "Male", "Artificial Intelligence", 2015));
14        StudentList.add(new Student(199, "Amelia Zoe", 24, "Female", "Computer Science", 2016));
15        StudentList.add(new Student(200, "Jaden Dough", 38, "Male", "Cyber Security", 2015));
16        StudentList.add(new Student(211, "Jasna Kaur", 27, "Female", "Information Technology", 2014));
17        StudentList.add(new Student(222, "Nitin Joshi", 25, "Male", "Artificial Intelligence", 2016));
18        StudentList.add(new Student(233, "Jyothi Reddy", 27, "Female", "Machine Learning", 2013));
19        StudentList.add(new Student(244, "Nicolus Den", 24, "Male", "Computer Science", 2017));
20        StudentList.add(new Student(255, "Ali Baig", 23, "Male", "Information Technology", 2018));
21        StudentList.add(new Student(266, "Sanvi Pandey", 26, "Female", "Artificial Intelligence", 2015));
22        StudentList.add(new Student(277, "Anuj Chettiar", 31, "Male", "Artificial Intelligence", 2012));
23
24        new Solution().countOfStudentsInDepartments(StudentList);
25    }
26 }

```

## Student.java

```

1 class Student
2 {
3     int id;
4     String name;
5     int age;
6     String gender;
7     String department;
8     int yearOfJoining;
9
10    public Student(int id, String name, int age, String gender, String department, int yearOfJoining )
11    {
12        this.id = id;
13        this.name = name;
14        this.age = age;
15        this.gender = gender;
16        this.department = department;
17        this.yearOfJoining = yearOfJoining;
18    }
19
20    public int getId()
21    {
22        return id;
23    }
24
25    public String getName()
26    {
27        return name;
28    }
29
30    public int getAge()
31    {
32        return age;
33    }
34
35    public String getGender()
36    {
37        return gender;
38    }
39
40    public String getDepartment()
41    {
42        return department;
43    }
44
45    public int getYearOfJoining()
46    {
47        return yearOfJoining;
48    }
49
50    @Override
51    public String toString()
52    {
53        return "Id : "+id
54            +", Name : "+name
55            +", Age : "+age
56            +", Gender : "+gender
57            +", Department : "+department
58            +", Year Of Joining : "+yearOfJoining;
59    }
60 }

```