```
You are given a list of Students as StudentList,
Your task is to find out the number of students in each department

Sample Output:
--------------
Cyber Security : 2
Artificial Intelligence : 5
Computer Science : 3
Machine Learning : 2
Information Technology : 3
Humanties and Sciences : 2



The Student class looks like this:
---------------------------------
class Student
{
    int id;
    String name;
    int age;
    String gender;
    String department;
    int yearOfJoining;

    public Student(int id, String name, int age, String gender, String department, int yearOfJoining )
    {
        this.id = id;
        this.name = name;
        this.age = age;
        this.gender = gender;
        this.department = department;
        this.yearOfJoining = yearOfJoining;
    }

    public int getId()
    {
        return id;
    }

    public String getName()
    {
        return name;
    }

    public int getAge()
    {
        return age;
    }

    public String getGender()
    {
        return gender;
    }

    public String getDepartment()
    {
        return department;
    }

    public int getYearOfJoining()
    {
        return yearOfJoining;
    }

    @Override
    public String toString()
    {
        return "Id : "+id
                +", Name : "+name
                +", Age : "+age
                +", Gender : "+gender
                +", Department : "+department
                +", Year Of Joining : "+yearOfJoining;
    }
}
```

Solution.java

```
class Solution{
    public void countOfStudentsInDepartments(List<Student> StudentList){
        //Implement your code here
    }
}
```

Execution files

vpl_evaluate.cases

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

```

Main.java

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

        new Solution().countOfStudentsInDepartments(StudentList);
    }
}
```

Student.java

```java
class Student
{
    int id;

    String name;

    int age;

    String gender;

    String department;

    int yearOfJoining;

    public Student(int id, String name, int age, String gender, String department, int yearOfJoining )
    {
        this.id = id;
        this.name = name;
        this.age = age;
        this.gender = gender;
        this.department = department;
        this.yearOfJoining = yearOfJoining;
    }

    public int getId()
    {
        return id;
    }

    public String getName()
    {
        return name;
    }

    public int getAge()
    {
        return age;
    }

    public String getGender()
    {
        return gender;
    }

    public String getDepartment()
    {
        return department;
    }

    public int getYearOfJoining()
    {
        return yearOfJoining;
    }


    @Override
    public String toString()
    {
        return "Id : "+id
                +", Name : "+name
                +", Age : "+age
                +", Gender : "+gender
                +", Department : "+department
                +", Year Of Joining : "+yearOfJoining;
    }
}
```