

1. Look at the following **MainActivity** class:

```
public class MainActivity{
    public static void main(String[ ] args){
        //creating department
        Department cs = new Department(1, "Computer Science");
        //creating faculty
        Faculty f1 = new Faculty("Tony Stark", 100000, 12, cs);
        f1.showInfo( );
    }
}
```

Now, you need to write the following classes named **Department**, **Employee** and **Faculty**.

Department	Employee
int deptId String deptName	String empName double salary
Department() Department(int deptId, String deptName) void setDeptName(String deptName) String getDeptName() int getDeptId() String getDeptName()	Employee() Employee(String empName, double salary) void setEmpName(String empName) void setSalary(double salary) String getEmpName() double getSalary()

Faculty
int teachingHour Department dept
Faculty() Faculty (String empName, double salary, int th, Department d) void setTeachingHour(double th) void setDepartment(Department d) double getTeachingHour() Department getDepartment() void showInfo()

Sample Output of the Code

Name: Tony Stark
Salary: 100000
Teaching Hour: 12
Department Name: Computer Science

Special Note:

- The **Faculty** class inherits **Employee** class.
- The **showInfo()** of **Faculty** class displays the details of a faculty including the name of his/her department.

[Hints: At first, write the class **Department**, then the class **Employee** and at last, write the class **Faculty**.]