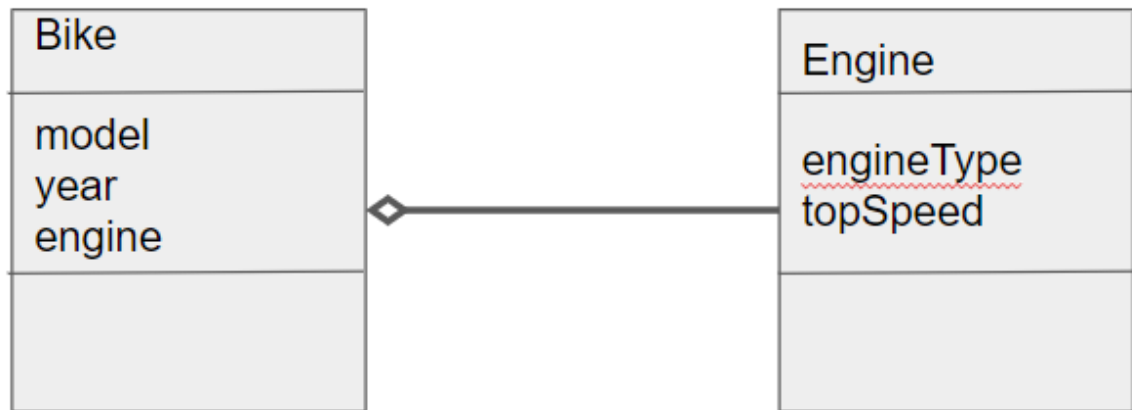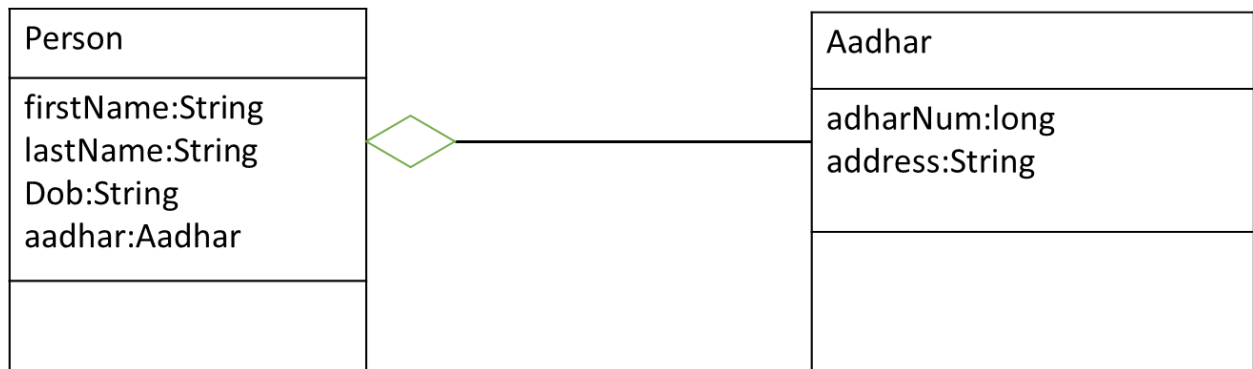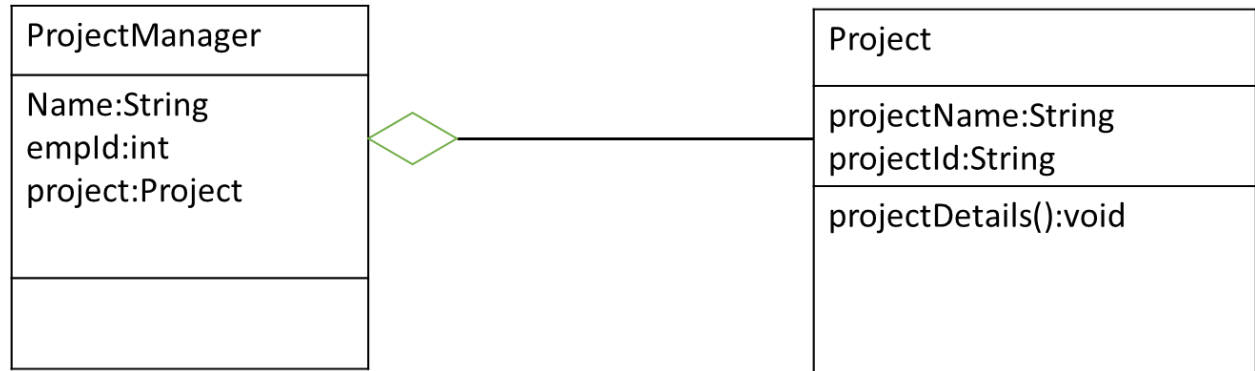1. ONE TO ONE

- Implement the given class diagram.
- Create a driver class
- Create an object for the engine and try to access the members of both Bike and Engine Classes.
- Create an object for the bike and try to access the members of both Bike and Engine Classes.

2.

Person
firstName:String lastName:String Dob:String aadhar:Aadhar

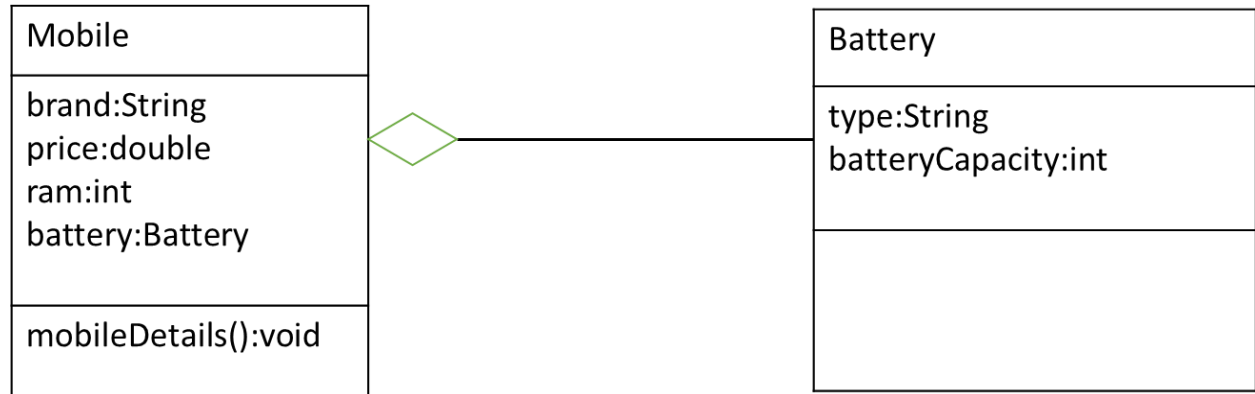| Aadhar |
| --- |
| adharNum:long
address:String |
| |

- Implement the given class diagram
- Create a Driver class
- Create an object for the Aadhar and access the members of Person class.
- Create an object for person class and access the members of Aadhar and person class

3.

ProjectManager
Name:String empId:int project:Project

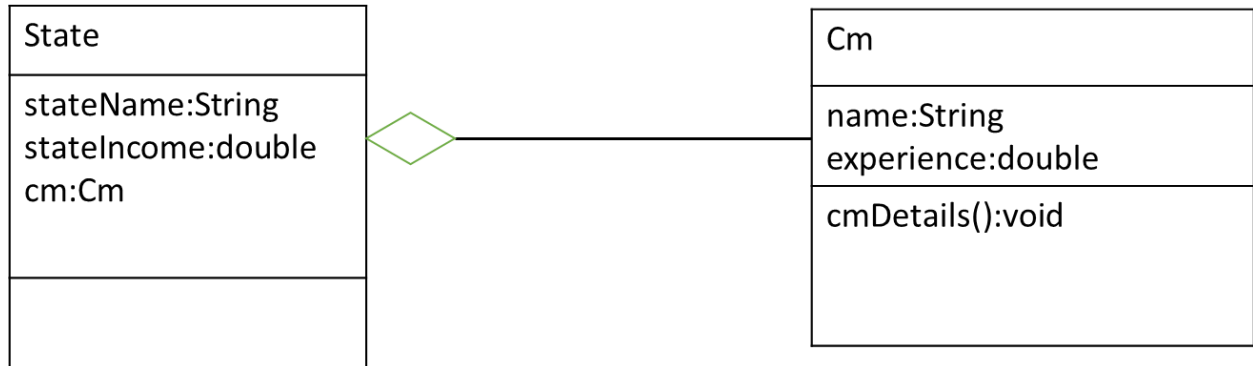| Project |
| --- |
| projectName:String
projectId:String |
| projectDetails():void |

- Implement the given class diagram
- Create a driver class
- Create an object for ProjectManager
- Call the project details method

4.

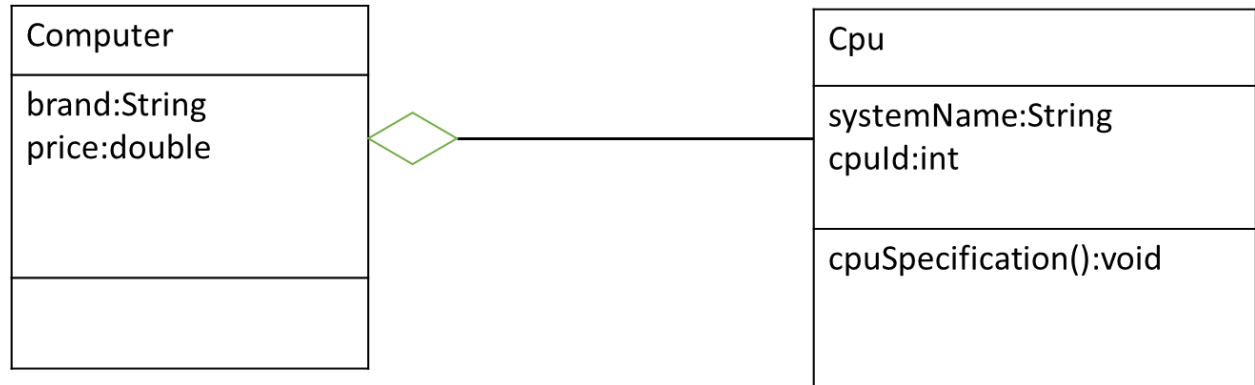| Mobile |
| --- |
| brand:String
price:double
ram:int
battery:Battery |
| mobileDetails():void |

Battery
type:String batteryCapacity:int

- Implement the given class diagram
- Create a driver class
- Call the mobileDetails() method
- Create an object for Mobile class
- Call the mobileDetails() method and print the details of Battery class
- Print the battery capacity

5.

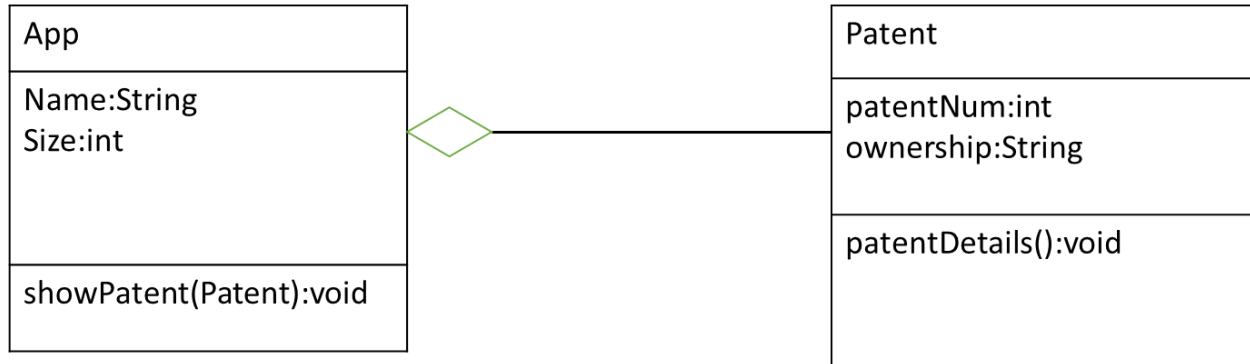| State |
|---|
| stateName:String
stateIncome:double
cm:Cm |
| |

Cm
name:String experience:double
cmDetails():void

- Implement the given class diagram
- Create a driver class
- Create an object for State class
- Display the Cm details

6.

Computer
brand:String price:double

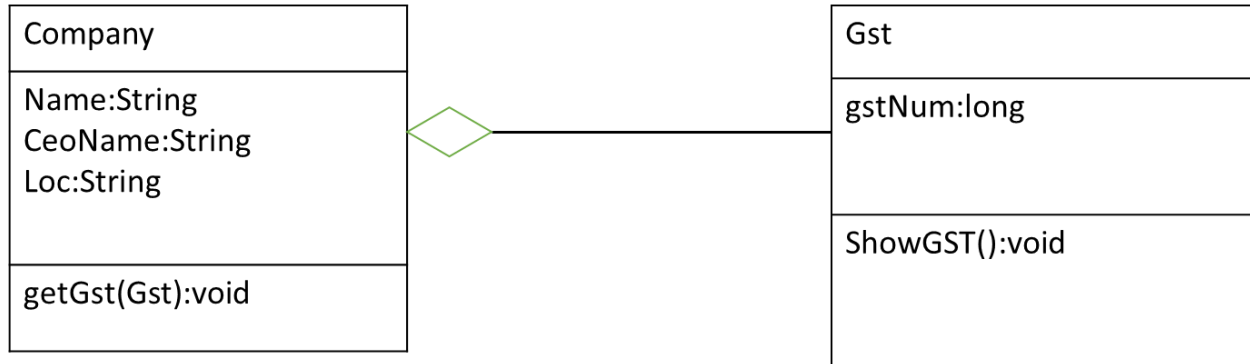| Cpu |
|---|
| systemName:String
cpuId:int |
| cpuSpecification():void |

- Implement the given class diagram
- Create a driver class
- Create an object for computer class
- Display the CpuSpecification details

7.

App
Name:String Size:int
showPatent(Patent):void

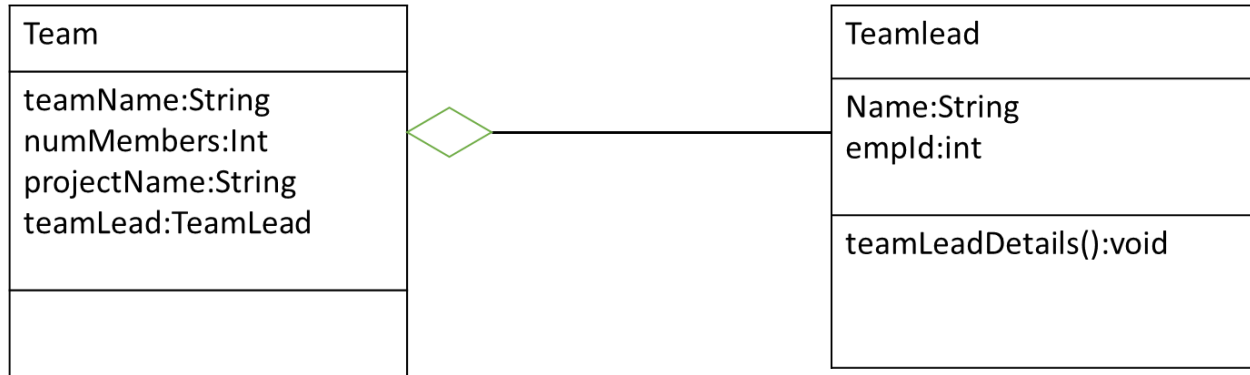| Patent |
|---|
| patentNum:int
ownership:String |
| patentDetails():void |

- Implement the given class diagram
- Create a driver class
- Create an array of application type and store 8 objects
- Find the smallest patent number in the given array of Application

8.

Company
Name:String CeoName:String Loc:String
getGst(Gst):void

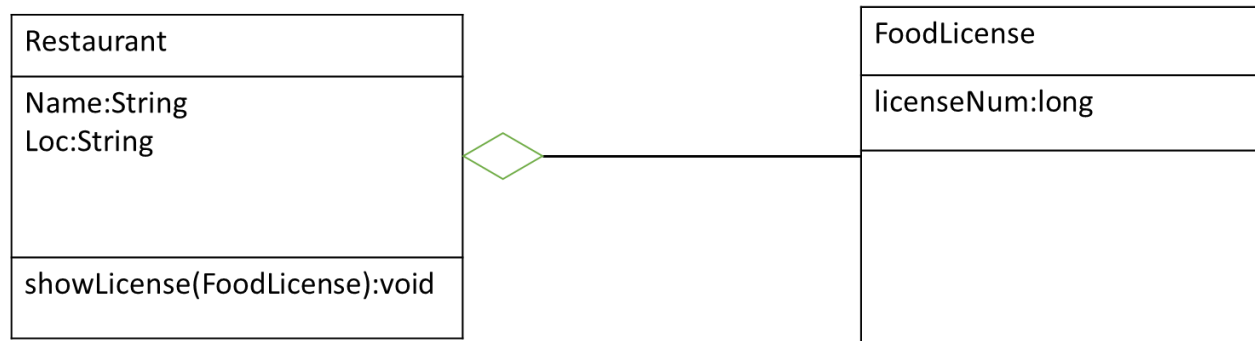| Gst |
|---|
| gstNum:long |
| ShowGST():void |

- Implement the given class diagram
- Create a driver class
- Create an array of size 5 and store company objects
- Sort all the companies gst number in ascending order and display

9.

Team
teamName:String numMembers:Int projectName:String teamLead:TeamLead

Teamlead
Name:String empId:int
teamLeadDetails():void

- Implement the given class diagram
- Create a driver class
- Create an object for Team class
- Display all the details of the Team
- Call the teamLeadDetails() method

10.

Restaurant
Name:String
Loc:String
showLicense(FoodLicense):void

FoodLicense
licenseNum:long

- Implement the given class diagram
- Create a Driver class
- Create an object for Restaurant class
- Call the showLicense method which should display the licenseNum