1. **Draw an inheritance diagram (like the one for the Question hierarchy in section 9.1 of your textbook) that shows the inheritance relationships between the following classes:  
     
   • Person  
   • Employee  
   • Student  
   • Instructor  
   • Classroom  
   • Object**



1. **In an object-oriented traffic simulation system, we have the classes listed below.  
   Draw an inheritance diagram that shows the relationships between these classes.  
     
   • Vehicle  
   • Car  
   • Truck  
   • Sedan  
   • Coupe  
   • PickupTruck  
   • SportUtilityVehicle  
   • Minivan  
   • Bicycle  
   • Motorcycle**

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1. **What inheritance relationships would you establish among the following classes?  
     
   • Student  
   • Professor  
   • TeachingAssistant  
   • Employee  
   • Secretary  
   • DepartmentChair  
   • Janitor  
   • SeminarSpeaker  
   • Person  
   • Course  
   • Seminar  
   • Lecture  
   • ComputerLab**

Person could be a superclass with subclasses being student and employee. Furthermore, employee could have the subclasses professor, teaching assistant, secretary, department chair, janitor, and seminar speaker. Separately, course could be another superclass with subclasses seminar, lecture, and computer lab.



