***Ques2. Draw an inheritance hierarchy for students at a university. Use Student as the base class of the hierarchy, then include classes UndergraduateStudent and GraduateStudent that derive from Student . Continue to extend the hierarchy as deep (i.e., as many levels) as possible. For example, Freshman, Junior and Senior might derive from UndergraduateStudent , and DoctoralStudent and MastersStudent might derive from GraduateStudent . After drawing the hierarchy, discuss the relationships that exist between the classes. Also, implement the above hierarchy using C++ code.***

*class student*

*{- - -}*

*class undergraduate:public student*

*{- - -}*

*class graduate:public student*

*{- - -}*

*class freshman:public undergraduate*

*{- - -}*

***Student***

*Undergraduate  
Student*

*Graduate  
Student*

**Freshman   
Junior**

**Senior**

**Doctoral  
Student**

**Masters Student**