**(Student Inheritance Hierarchy) (Activity -1)**

**(2 marks activity)**

Draw an inheritance hierarchy for students at a university

similar to the hierarchy shown in Figure below :



Use Student as the base class of the hierarchy, then include classes Undergraduate\_ Student and Graduate\_Student that derive from Student. Continue to

extend the hierarchy as deep (i.e., as many levels) as possible. For example, Freshman, Sophomore,

Junior and Senior might derive from Undergraduate\_Student, and Doctoral\_Student and Masters\_Student might derive from Graduate\_Student. After drawing the hierarchy, discuss the relationships that exist between the classes.

[*Note:* You do not need to write any code for this exercise.]