Program Design (2) – Lab 6

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1. (1) True

(2) False

The is-a relationship represents inheritance. In an is-a relationship, an object of a derived class also can be treated as an object of its base class. By contrast, the has-a relationship represents composition

(3) False

Student isn’t type of faculty or course. Faculty and course might represent composition (has-a) relationship with Student class.

(4) True

(5) True

2..

The UndergraduateStudent class inherits from Student class. There are 4 class, Freshman, Sophomore, Junior and Senior, inherit from UndergraduateStudent class.The GraduateStudent class also inherits from Student class. And there are 2 class, DoctoralStudent and MasterStudent, inherit from GraduateStudent class.