**Assignment-04(5%) +Lab 8(4%)**

This assignment +Labis 9% of your over all marks. Submit it by the deadline. If not submitted by deadline then 5% for each business days will be deducted. After 5 business days , Marks 0 will be awarded.

**UPLOAD only .java file for all of your classes**

Staff

Faculty

Employee

Full Time Faculty

Part Time Faculty

**Employee Class:**

The Employee class serves as the parent class (superclass) that is customized by its children (subclasses).

Class has two private variables. Firstname and last name.

Constructors: Employee class will have 1) a default constructor 2) argument as First Name, Last Name.

Create get and set methods (accessor and mutator) : for all private variables

Method: toString:

Employee Class will have toString method which will be overridden by child class . toString method will return string as Your First name : <<Ronak>> Last Name :<< Sheth >>. Instead of Ronak Sheth you can replace your name.

**Employee class will have 2 subclasses: Faculty and Staff**

**Faculty class(subclass of employee)**

Private variable : Course:

Constructors:1) default 2) argument will be first name , last name and course. To initialize first name and last name call set method of super class**.**

Create get and set methods (accessor and mutator) : for PRIVATE variable

**toString Method(Override parent’s method)**

Faculty class will have toString method: This method will return First name ,last name and course .Use “Super” to return first name and last name from employee class. And then add course from current class

**Staff class(subclass of employee)**

Private variable : shift (eg: morning,afternoon,night):

Constructors:1) default 2) argument will be first name , last name and shift. To initialize first name and last name call set method of super class**.**

Create get and set methods (accessor and mutator) : for PRIVATE variable

**toString Method(Override parent’s method)**

Staff class will have toString method: This method will return First name ,last name and shift .Use “Super” to return first name and last name from employee class. And then add shift from current class

**Faculty class will have 2 subclasse: Fulltime Faculty, part time faculty**

**Full Time Faculty class(subclass of Faculty)**

Private variable : Salary :

Constructors:1) default 2) argument will be first name , last name and course and salary. To initialize first name ,last name and course call set method of super class(faculty)**.**

Create get and set methods (accessor and mutator) : for PRIVATE variable

**toString Method(Override parent’s method)**

Full time Faculty class will have toString method: This method will return First name ,last name and course and salary .Use “Super” to return first name ,last name and course from faculty class. And then add salary from current class

**Part Time Faculty class(subclass of Faculty)**

Private variable : perHourRate :

Constructors:1) default 2) argument will be first name , last name and course and perHourRate. To initialize first name ,last name and course call set method of super class(faculty)**.**

Create get and set methods (accessor and mutator) : for PRIVATE variable

**toString Method(Override parent’s method)**

part time Faculty class will have toString method: This method will return First name ,last name and course and perHourRate.Use “Super” to return first name ,last name and course from faculty class. And then add perHourRate from current class

**TestEmployee CLASS**

In your test class: (Main method)

Instantiate one object of each class. Display its contents using the toString method.