

Chapter 11 Programming Project (100 points)

Read Chapter 11 in your book if you have not done so yet.

(THE PERSON, STUDENT, EMPLOYEE, FACULTY, AND STAFF CLASSES) Design a class named **Person** and its two subclasses named **Student** and **Employee**. Make **Faculty**, **Instructor** and **Staff** subclasses of **Employee**. A person has a name, ID number, address, phone number, and e-mail address. A student has a class status (freshman, sophomore, junior, or senior). Define the status as a constant. An employee has an office, salary, and date hired. Use the **MyDate** class defined in Programming Exercise 10.14 to create an object for date hired. A faculty member has office hours and a rank. An instructor has a tier rank. A staff member has a title. Override the **toString** method in each class to display the class name and the person's name.

Write a test program that creates a **Person**, **Student**, **Advisor**, **Faculty (full time)**, **Instructor (part time)**, and **Staff**, and invokes their **toString()** methods.

You should be using methods as needed and not using global variables.

Name your file **Chap11PP_yourlastname**. Submit your **Java** file to D2L.

You will be graded on the following criteria:

- Complete comment block at beginning
- Comments throughout code
- Code compiles and runs (failure to compile and compile will be a automatic 50% deduction)
- Code works and produces desired output
- Variables are named by the standards previously provided
- Only concepts from chapters 1 through 12 of your book are used.
- Show use of inheritance and polymorphism (this will need to be done in your test program)