## CS 222 02

## Programming Assignment 03 Chapter 01

## 20 Points

Due: Friday, February 23, 2018

Write an Employee class that keeps data attributes for the following pieces of information:

Employee name

Employee number

Be sure to include the appropriate accessor an mutator methods.

Next, write a class named ProductionWorker that is a subclass of the Employee class. The ProductionWorker class should keep data attributes for the following information:

Shift number (an integer such as 1, 2, or 3)

Hourly pay rate

The workday is divided into two shifts: day and night. The shift attribute will hold an integer value representing the shift that the employee works. The day shift is shift 1 and the night shift is shift 2. Write the appropriate accessor and mutator methods for this class.

Once you have written the classes, write a program that creates an object of the ProductionWorker class and prompts the user to enter data for each of the object’s data attributes. Use the mutator methods to enter data into the objects. Store the data in the object and then use the object’s accessor methods to retrieve it and display it on the screen.

Add the following comments to the beginning of the program.

Name: Your Name

Class and Section: CS 222 02

Assignment: Program Assignment 03

Due Date: See above

Date Turned in:

Program Description: You write a short description of what the program will do

When you complete the program, do the following.

1. Turn in a printout of the source code
2. Create a folder with the following name: **Program 03**
3. Copy your program and any related files to this folder
4. Copy the folder to the following location: **I:\kopp\inbox\CS 222 02\*your name*** where your name is a folder located in I:\kopp\inbox\CS 222 02.

**Extra Credit: 5 points**

Add an \_\_str\_\_ method to each of the classes. The \_\_str\_\_ for the ProductionWorker class should call the \_\_str\_\_ of the Employee class before constructing and returning its own data. Add to the test program code to test \_\_str\_\_ through a print statement.