

COMP B10 – INTRO TO PROGRAMMING METHODOLOGIES USING PYTHON

ASSIGNMENT #8 (EMPLOYEE CLASS – INHERITANCE & POLYMORPHISM)

Create the Python code for a program adhering to the following specifications.

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

- **Employee Name** (a string)
- **Employee Number** (a string)

Make sure to create all the accessor, mutator, and `__str__` methods for the object.

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 or 2)
- **Hourly pay rate** (a float)

Make sure to create all the accessor, mutator, and `__str__` methods for the object.

Once you have completed the class definitions, write the main line code that prompts the user to enter data for each of the object's data attributes. Create an instance of the ProductionWorker class and store the data in the object and then **use each of the object's accessor methods from outside the class/subclass definition to retrieve all the data and display it to the screen.**

Additional notes:

- You MUST use the provided program template.
 - Your messages and prompts should look like those in the sample. Duplicating all blank lines and spacing.
 - You must create all accessor, mutator and `__str__` methods
 - The accessor methods will return ONLY the value of the data attribute
 - You decide to use public or "private" data attributes
 - You do not need to document your variable for this program.
 - Pay attention to spelling and all other things visual -- you will be graded on this.
 - Staple multi-page outputs.
 - Use appropriate white-space and line-continuations in your source code.
 - Upload ONLY your Python program to Canvas in the designated area.
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SAMPLE RUN:

Enter the name: John Stewart
Enter the ID number: 002
Enter the shift number: 1
Enter the hourly pay rate: 23.50

Production worker information

Name: John Stewart
ID number: 002
Shift: 1
Hourly Pay Rate: \$23.50

Run complete. Press the Enter key to exit.