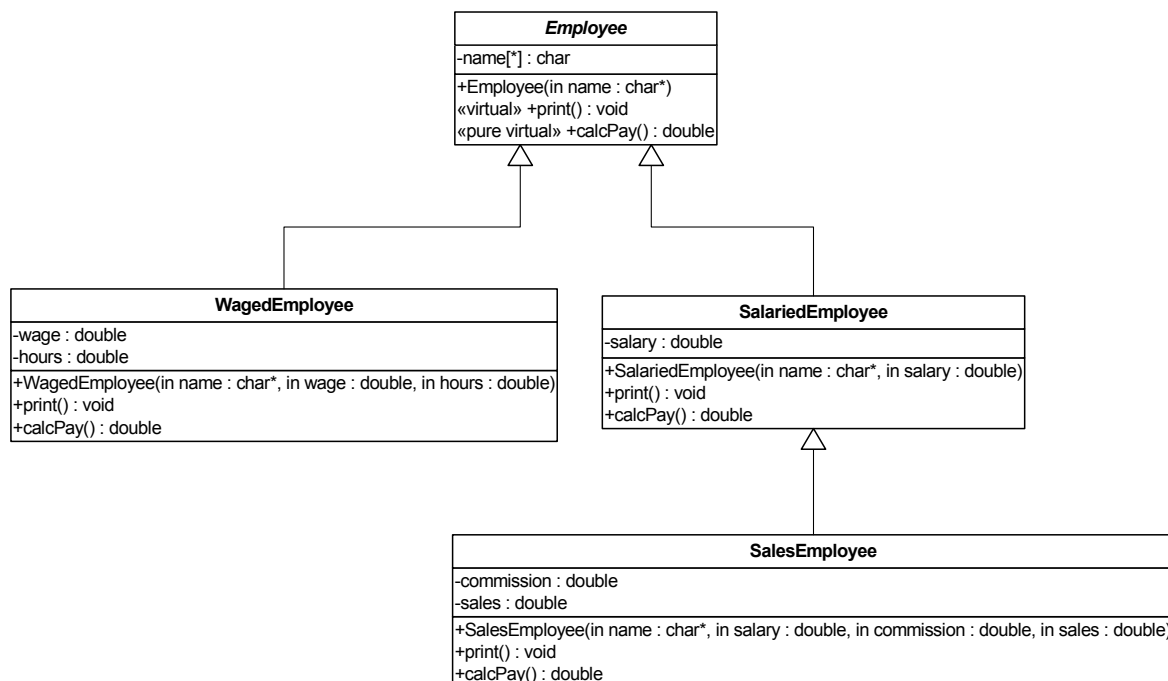


MIT 813-OOAD Assignment 3

Programming Inheritance & Implementing Polymorphism

Assignment

Implement the four classes in the diagram below. Place each class in a separate .h file (the functions are not complex and may be implemented as inline functions, don't forget the `#ifndef` and `#endif`). Combine your classes with the `Prog1.cpp` file from the web page to complete the assignment. Submit your .h files and the .exe file on a Windows formatted floppy disk for grading.



Requirements:

- Subclass constructors must pass appropriate information to super class constructors.
- The `print` functions must
 - print class member data
 - call super class `print` functions where they exist
- The `calcPay` functions must
 - calculate the total pay based on the formulas below (this may require calling a super class `calcPay` function)
 - Employee: N/A
 - Salaried Employee: $\text{salary} / 24$
 - Sales Employee: $\text{regular salary} + \text{commission} \times \text{sales}$
 - Wage Employee: $\text{wage} \times \text{hours}$

Hint: when copying strings in the form of a character pointer, use the `strcpy(char* d, char* s)` function (`d` is the destination and `s` is the source—copies from `s` to `d`). This will be useful in the constructors. Don't forget to `#include <string.h>`