Course Project Assignment

FACULTY OF INDUSTRIAL TECHNOLOGY

Subject : Object-Oriented Programming

Design and implement an application that serves as a system for storing and processing information about employees in a company.

✓1. Define a class Person with private fields for: ID, name, and address.
   ✓a) Add suitable constructors, destructor, access methods, and a method to print information.

✓2. Define a class HourlyEmployee as a subclass of the Person class, with additional private attributes for worked hours (per month) and hourly rate.
   ✓a) Add suitable constructors, destructor, access methods;
   ✓b) Add a friend function monthPayment(), which returns as a result:
      monthly payment = worked hours * hourly rate
   ✓c) Override the method that prints complete information about the employee.

✓3. Define main() function to process information about employees:
   ✓a) Input data for N employees (where N<=50) from the keyboard, and add them into an array.
   ✓b) Print information about all employees.
   ✓c) Print the names and monthly payment for all employees.
   ✓d) Calculate and print the average monthly payment of employees with hourly wages.

Requirements for project documentation:

The documentation should contain:
✓• title page with student's data, supervisor;
✓• text of the assignment;
✓• general block diagram of the developed application;
✓• description of the used modules (classes) - elements and purpose;
✓• general description of how the program works (input/output);
✓• listing of the program source code;
✓• results of program implementation (control example).

Supervisor:

/Veska Gancheva/