Review for Midterm

Part 1

1. Create a class Person(Name).
2. Create a class Employee which is a subclass of Person.

   Employee class should have an array for the hours worked per week (from Monday to Friday), as shown in the following table:

Name	Monday	Tuesday	Wednesday	Thursday	Friday
John	5	3	8	7	8
Sally	2	1	5	6	8
Harold	8	5	3	8	8

Gross_pay($)
341
242
352
935

3. Define a constant HOURLY_RATE equals to $11.00 in the Employee class
4. Create a method to calculate the GrossPay, the signature should be:
   public double getGrossPay()
5. Create a class method to calculate the payment of all employees, the signature should be:
   public static double getTotalGrossPay(Employee[] employees)
6. Create an EmployeeDemo to instantiate the classes and calculate and print the salary per employee.

Part 2

Write the Java code that corresponds to each question:

1. Suppose you have a two-dimensional array named salary with 25 rows and 12 columns, the data type of the array is double. The salary array contains the salary of 25 employees in 12 months.

   a. Write the necessary code to print the highest value in the salary array (3 marks)

   b. Write the necessary code to print the sum of each row of the salary array, <u>one row per line</u> (3 marks).

   c. Write the necessary code to print the sum of the second column of the salary array (3 marks).

Part 3

1. Write class **MyApp**, create a method **mySum** that receives as parameter a 2D array, the method computes the alternating (per row) sum of all elements in an array. For example if **mySum** is called with an array like this {{2,6,0},{6,2,0}} then it will return the sum of 2 - 6 + 0 + 6 - 2 + 0