Programming

week 7 - reflection

You are allowed to use internet resources but you're not allowed to see other participants' code.
The evaluation has a duration of 2 hours and it is ungraded.

Exercise

Derek gets his first big task at his job. His company wants to automate the monthly payments of their employees. They have a *csv* file where they have all their employee names, together with their department, salary and their bank accounts to make the bank transfer. In addition to automating the payments, the accountancy department wants to know the total paid, which department is the one paying the most money and the employee with the highest salary.
Program requirements:

- It automates the monthly payments of their employees.
- It gathers statistics about:
  - Total amount of money paid.
  - The department paying the most money.
  - The employee with the highest salary.

Develop a code that takes care of the previous program requirements.
Provide full coverage tests, meaning every class that performs logic operations should have a test.
Hints:

- *You don't need to use interfaces or abstracts.*
- *Paying every employee means that one class receives one bank account and the amount and displays on the screen that the payment has been successfully made. For example: bank.transfer(salary, account);*
- *You don't need to test the bank class.*
- *You don't need to test the class responsible for reading the file.*
- *Don't test the classes with the list of employees that comes from the file. Just create a test list of two or three manually in the test class and make sure you assert everything that you need.*
- *Break down the problem into smaller problems in the paper before coding. This will give you a better understanding.*
- *The program is quite simple, so don't complicate yourself. Keep it simple stupid.*

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Transfer successful: 2100€ to account AT1111222233334444
Transfer successful: 2400€ to account AT2222333344445555
Transfer successful: 2450€ to account AT3333444455556666
Transfer successful: 2100€ to account AT4444555566667777
Transfer successful: 2200€ to account AT5555666677778888
Transfer successful: 2200€ to account AT6666777788889999
Transfer successful: 2600€ to account AT7777888899991111
Transfer successful: 2450€ to account AT8888999911112222
Transfer successful: 2250€ to account AT9999111122223333
Transfer successful: 2500€ to account AT1111222233335555
Total amount paid: 23250€
Most paying department: IT
Highest salary employee: Peter from Cleaning with 2600€
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