Practical session 9

This work should be completed before the next lecture.

Task 1: Sports Day collections

Copy your NetBeans project from Task 1 for Week 8.

Modify the program so that it uses Java streams to collect the participants of each race into `List`s. Print the contents of each list.

Portfolio requirements:

- The NetBeans project for this completed task

Task 2: Average salary

Copy your NetBeans project from Task 3 for Week 8.

Modify the program so that it uses a stream reduction to calculate the average salary of all employees. Print the average salary after printing the list of employees in ascending order of name within descending order of salary.

Portfolio requirements:

- The NetBeans project for this completed task

Task 3: Employee collection

Copy (again) your NetBeans project from Task 3 for Week 8.

Modify the program so that all employees in a department are printed. The user inputs the name of the department. Use a collector for the printing, as shown in the lecture demonstration.

Portfolio requirements:

- The NetBeans project for this completed task

Task 4: Factorial with streams

Use streams to calculate and print the factorial of a positive integer input by the user.

Portfolio requirements:

- The NetBeans project for this completed task

Task 5: Explore `Collectors`

In your independent study time, explore the `Collectors` class to become familiar with its other various methods.

Try writing some code that uses these other methods.

Portfolio requirements:
- The Java code you write for this task