Homework 1
(10 points)

Task 1 (2 points)

1. Create directory “HW1”.
2. Inside it create subdirectories “Data” and “Results”.
3. In directory “Data” create directory “A”.
4. In directory “Results” create directory “B”.

Task 2 (2 points)

1. Along the tasks you have four text files uploaded with the same number of rows. File “names.txt” should initially be placed in directory “HW1”, file “studyProgram.txt” should be placed in directory “Results”, file “courses.txt” should be placed in directory “A”, and file “grades.txt” should be placed in directory “B”.
2. File from directory “Results” move to directory “Data”.
3. Copy the other files to directory “Data”.

Task 3 (6 points)

1. Files from directory “Data” merge into a new file “examResults.txt” and save it to directory “Results”. Data should be in the following order: study program, course, name, grade. Separate columns should be separated by a semicolon.
2. Figure out which study programs appear in the file “examResults.txt”. Each study program should appear exactly once in the final result. Save the list of study programs in a file named “distinctPrograms.txt” inside directory “Results”.
3. For each study program prepare a separate overview which will show for each course the number of occurences of each grade. For every combination of course and grade the result should show exactly one line which contains the name of the course, the grade and the number of occurences of that grade. The grades should also be sorted for each course from highest to lowest. Results for each study program should be saved separately in directory “Results”. The name of the file should be the name of the study program.