**Problem 1**:
Using good coding practices, write a program that compares the contents of two ".txt" files
and then saves the properties of the files in another "Properties.txt" file. The properties of
the each file should include the name of the file, the number of characters, the number of
words, and a sentence stating if one file has more lines than the other or the same amount
of lines.

Your program should prompt the user for the name of the files. Use operator overload-
ing to write functions that compare both files by the amount of lines such that ( `file1 >`
`file2` ) returns true if `file1` contains more lines than `file2` and false otherwise. Similarly
( `file1 == file2` ) returns true if the files contain the same amount of lines.

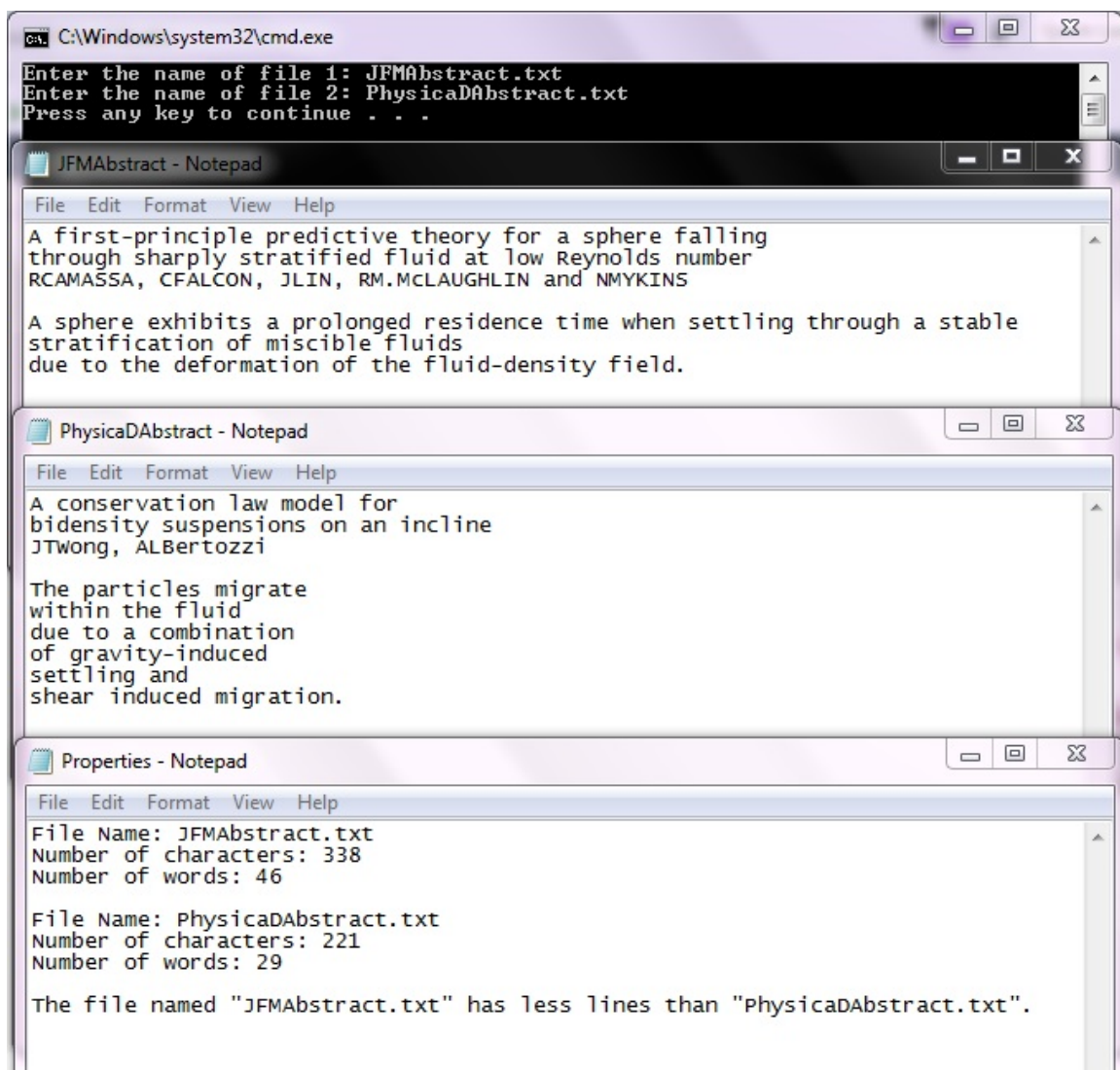Figure 1 shows a sample output for the given `file1` and `file2`.



Figure 1: Homework 3 sample console, input files "JFMAbstract.txt" and "PhysicaDAb-
stract", and resulting output file "Properties.txt"

**Good Coding Practices:**

- think about cross-platform pause == cin.get() twice, write many \n vs. system(clear) or system('cls). )

- passing all objects by reference & or const &

- using field initializer list when possible in all constructors

**Instructions for submission:**

- Name your main file exactly `hw3.cpp`, and the rest being `textfile.h` and `textfile.cpp`.

- You may not use `#include "stdafx.h"`.

- Add code description in the comment at the beginning of the file.
  A sample description may look like:

  ```
  /*
      PIC 10B 2A, Homework 1
      Purpose: Tic-tac-toe game
      Author: Hanqin Cai
      Date: 10/10/2019
  */
  ```

- Submit your header files and source codes to CCLE in separate files. Only .h and .cpp files should be uploaded.

**Grading**

- Good Coding Practices (5 points)

- Compiling (5 points)

- Takes Correct Input (3 points)

- Gives Correct Output (3 points)

- Code (4 points)