Lab sheet # 7

Files

Write a program that process a file and contains the following functions

1. **Function <u>constructFile</u>: that enables the user to input from keyboard some English sentences and stop when encounters the character "#" And after seeing the "#" the user should input some float numbers and stop when encounters a zero. This data should be saved in a file named "allFile.txt".**

2. **Function <u>readFile</u>: that returns the contents of the file "allFile.txt"**

3. **Function <u>countWords</u>: Count the words in the file.**

4. **Function <u>separateIntoFiles</u>:**
   a. **Reads the file then Separates the contents of the file into two different files.**
   b. **The first file contains all words until the "#". Using this file replace all occurrences of a GIVEN string by another GIVEN string.**
   c. **The second file contains all numbers until the zero. While saving it in the file use the number format functions such as setfill, width, setf, precision, … to save the data in the file in a good table format.**

5. **use command line arguments to enter the names of the files**

6. **the students should test for correct file opening**

7. **the student should try the three ways of opening the file using:**
   while ! infile.eof() - while (infile) - while(infile >>x)

<u>Program Code:</u>