Object Oriented Programming (Java)

Word Counter Program

This Java program reads words from an input file, counts the occurrences of each word, and writes the word counts to an output file. It utilizes a Hashmap to store the word frequency pairs, treating words as case insensitive. After processing the input file, it writes each word along with its count to the output file. Finally, it prints a message confirming the completion of the word count process and the file where the results are saved   
  
  
  
Code:

import java.io.File;

import java.io.FileNotFoundException;

import java.io.PrintWriter;

import java.util.Scanner;

import java.util.HashMap;

import java.util.Map;

public class CountWordProg

{

public static void main(String[] args) throws FileNotFoundException

{

File inputFile = new File("input.txt");

File outputFile = new File("output.txt");

Map<String, Integer> wordCount = new HashMap<>();

try (Scanner scanner = new Scanner(inputFile))

{

while (scanner.hasNextLine())

{

String line = scanner.nextLine().toLowerCase().trim();

if (!line.isEmpty())

{

wordCount.put(line, wordCount.getOrDefault(line, 0) + 1);

}

}

}

try (PrintWriter writer = new PrintWriter(outputFile))

{

for (Map.Entry<String, Integer> entry : wordCount.entrySet())

{

writer.println(entry.getKey() + " " + entry.getValue());

}

}

System.out.println("Word count is done and saved in output.txt file.");

}

}