Task 1: Java IO Basics
Write a program that reads a text file and counts the frequency of each word using FileReader and FileWriter.
ANS:

```java
package com.Day25;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.util.HashMap;
import java.util.Map;
public class Task1 {
  public static void main(String[] args) {
    String inputFile = "input.txt";   // Input file path
    String outputFile = "output.txt"; // Output file path
    // Read the file and count word frequencies
    Map<String, Integer> wordCountMap = new HashMap<>();
    try (BufferedReader reader = new BufferedReader(new FileReader(inputFile))) {
      String line;
      while ((line = reader.readLine()) != null) {
        String[] words = line.split("\\W+"); // Split the line into words using non-word characters as delimiters
        for (String word : words) {
          if (word.isEmpty()) {
            continue; // Skip empty strings resulting from consecutive delimiters
          }
          word = word.toLowerCase(); // Convert to lower case to make counting case-insensitive
          wordCountMap.put(word, wordCountMap.getOrDefault(word, 0) + 1);
        }
      }
    } catch (IOException e) {
      e.printStackTrace();
    }
    // Write the word frequencies to the output file
    try (BufferedWriter writer = new BufferedWriter(new FileWriter(outputFile))) {
      for (Map.Entry<String, Integer> entry : wordCountMap.entrySet()) {
        writer.write(entry.getKey() + ": " + entry.getValue());
        writer.newLine();
      }
    } catch (IOException e) {
      e.printStackTrace();
    }
  }
}
```