CO871 Assessment 2

Introduction

In this assignment you will work with an existing project, **WordCount**. You are expected to complete the following tasks by using lambda expression, method reference and stream in Java.

Deadline and Submission

- The submission deadline is at 11:55pm on Monday 22 Nov 2021.
 A mark of zero will be awarded for late or non submission of the coursework.
- You should upload your Java file Main. java using the submission link on the module Moodle page before the submission deadline.

Important

Before working on the tasks below, you should

- a) download the file WordCount.zip from Moodle and unzip the file before working on the project;
- b) carefully study the given code and make sure you understand them well. *Please do ask* if you have any queries.
- c) write your solutions to the following tasks between the lines

```
// START OF YOUR CODE
and
// END OF YOUR CODE
```

Tasks

- 1. [5 marks] Identify the longest line in the list lyrics and print out the longest line and its length in the terminal.
- 2. [8 marks] Collect all words in lyrics and store them in a local variable named words of type List<String>.

Note:

- All words stored in words should be in lower case.
- You should make use of the list words in Tasks 3 & 4.
- 3. [5 marks] Print out a list of distinct words with 6 characters in an alphabetical order.
- 4. [12 marks] Calculate the frequency of each unique word in words and then print out the words and their frequencies of all the words that have at least 4 characters and occur more than 5 times. The output should be ordered by frequency.