



## **FACULTY OF INFORMATICS & COMPUTING**

**CSF 11803**

**Object - Oriented Programming**

**Lab Assignment: Song Sorter**

**Program: SMTMIM2**

**Group Members:**

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## **CSF11803 Lab Assignment**

### **1. Introduction**

The reason that we choose to make this program is because of three reasons. First, song sorters only need three inputs from the user which is the genre, song name and artist name. Rather than making a registration form that needs many inputs to be processed. Second, the song sorter is easy to understand because we basically just input the name of the song and the artist that we add it to the list table to be sort. Third, all the input we receive from the user will only be in the String data type. Which is, there is no calculation but only condition.

We will be able to list down all of the songs that we love and observe it with clear understanding because the name, the artist and the genres are sorted in an arranged table.

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### 2. Challenges

Developers face a variety of obstacles as they go along the programming learning curve. To build reliable and effective software, programmers must overcome several challenges, such as understanding complicated logic and traversing the always shifting terrain of languages and frameworks. The challenges showed below:

- Problems and mistakes: Since developers frequently run across problems and mistakes in their code, debugging is a crucial component of programming. It may take some time and effort to locate and address these problems, and a methodical approach is necessary.
- Time management: Accurately estimating the time needed to finish a programming job can be challenging. It might be difficult to juggle several responsibilities, adhere to deadlines, and set aside time for testing and debugging.
- Collaboration and communication: Essential for successful programming projects where several programmers often collaborate. It might be difficult to coordinate tasks, incorporate code changes, and settle disputes, especially with distant teams.

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### 3. Link Video

<https://youtu.be/5-X0KFnQoUA>

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