



CHIANG MAI UNIVERSITY
Bachelor of Science (Software Engineering)
College of Arts, Media and Technology
1st Semester / Academic Year 2019
SE 103 PROGRAMMING LOGICAL THINKING

Project Instruction

Instruction :

1. Group of 3 students.
2. Each system has different score. Select the system from the following list
 - **Money Wallet***** - The program must be able to set the initial balance. Then, the income and the expense can be added in to the program. The program must be able to calculate the summary and display the history of transaction.
 - **Grade Calculator**** - The program must be able to read credit and grade. Then, the program must be able to display the GPA on the screen.
 - **Calculator*** - The program must be able to do exactly as the real calculator.
 - **ATM*** - The program must be able to deposit, withdraw. The program is allowed to set the initial balance.

The asterisks (*) represents the score and the degree of difficulty. Larger number of asterisks indicates the higher score.

You can use the component that is not part of the lecture and lab, such as tiny database.

3. The task is to develop a functional program using App Inventor. You can add new features that is not listed in the problem description.
4. For each event (such as clicking a button), you have to submit the flowchart.
5. You need to combine every files into a single ZIP file and upload via dropbox request <https://www.dropbox.com/request/hDJqXrs629ZpaFM9m0tA> . For the presentation, you will record the presentation and upload to the youtube (the link to the youtube must be included in the submission). The duration of the presentation is 3 minutes highlighting your work.
6. The grading criteria are as follows
 - a. Look and Feel
 - b. Ease of use
 - c. Function – This criterion has the highest score.
 - d. Document – Flowchart
 - e. Creativity (additional feature) – Least score
7. Any cheat, such as copy your work from other people, is not tolerated. The punishment is ranging from the score reduction to denial of submission.