**Program assessment rubrics**

Lab Group: \_\_\_FE1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Names of members: PHUNG MINH KHANH

Include this page in your softcopy submission. You are required to fill in the first 4 entries in the table, indicating how you have made use of these CT concepts in your software design.

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| --- | --- | --- | --- |
| **Assessment Criteria** | | **Description/Comment** | **Marks** |
| 1 | Use of Pattern recognition  (10) | - In the function “information\_of\_chosen\_canteen”, the number of stalls in each canteen is different. Then I use pattern recognition to calculate suitable gap between two consecutive names that can fit in fixed table in the program regardless of how many food stalls are.  - In the function “pop\_up\_direction”, a ratio between text, button with screen is set such that when user wants to change the size of window display, the size and position of buttons, text also change, which makes the distribution of components on the screen unchanged  - In the function “ start\_program”, when the map is zoomed, pattern recognition is used to make the “geo\_location\_x” and “geo\_location\_y” changes with the same ratio to yield correct result |  |
| 2 | Use of Abstraction (10) | Data abstraction: List, tuple and class are used to store data  Eg: all canteen objects are stored in list\_canteen for easier access  Functions are used to divide program in to different layers of execution. Firstly, the program executes function cover\_page, then function start\_program and function ask\_criteria, ... |  |
| 3 | Use of decomposition (10) | Numerous functions are used, each of them can execute small part of the program and they can be combined to run the program  E.g 1: function “move\_map”, function “zoom” are used to control the map on screen  E.g 2: to execute update information, three functions are used( update\_now, page and update\_information) |  |
| 4 | Algorithm Design (20) | Sorting and searching algorithms are used such as bubble sort in function “calculatedistance”,function search\_food\_by\_name, merge sort is used in line 1156, searching is used in function “ search\_food\_by\_name”, “search\_food\_by\_price” |  |
|  |  |  |  |
| 5 | User Interface Design (10) |  |  |
| 6 | System Complexity (10) |  |  |
| 7 | Teamwork & Presentation (10) |  |  |
| 8 | Individual Oral Assessment (20) |  |  |
| Others (Optional) | | | |

Date of Assessment:\_\_\_\_\_14/11/18\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_