

PROGRAMMING PROJECT GUIDELINES PROJECT EVALUATION : 15% (OUT OF 60 MARKS)

PROGRAMMING PROJECT PRESENTATION (WEEK 14)

DATE : TUESDAY, 19 DEC 2017 (SESSION 1)

THURSDAY, 21 DEC 2017 (SESSION 2)

TIME : 11.30 AM – 12.50 PM (6 GROUPS PER SESSION)

VENUE : TEACHING LAB 4

***NOTE: Only presenting groups need to be present during presentation day.**

Each group is given approximately 10 minutes to present their work. The order of group presentation is determined by the level of complexity of the project.

CODE DEVELOPMENT

Your project **MUST** make use of the following C++ components:

- i) User input
- ii) Selection and Repetition
- iii) Functions
- iv) [1d Arrays or vectors & 2d Arrays] OR [Data Structure] OR [FILE] (Choose one or more)
- v) Pointers

The following basic functions are **EXPECTED**:

- a) Insert data
 - b) View data
 - c) Update data (requires a searching capability)
 - d) Delete data (optional/bonus)
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- You will be presenting your project in class in front of other groups and **explain how your program works**. Each group member **MUST develop at least one function and present some parts of the project (everyone needs to talk)**. The type of inputs to be entered during program execution will be determined by the instructor during the presentation.
 - You may also be requested to display your codes during the presentation and answer some technical questions (if needed).
 - **Place all relevant files in a folder** with the format **groupname_section** (eg: Al-Battani_S1) and **zip your folder**. **Submit your codes right after the project presentation** by uploading the files on **italeem** under the **group submission link "Class Project"**.
 - After uploading your zip file on italeem, try to download and extract the files back into your machine. **Make sure all required files are available before you click on the button "Submit"**.
 - **DO NOT print your codes and include them in your report**. All source codes must be submitted as **.cpp, .h, .txt or .dat** files only through italeem.

PROJECT EVALUATION (45 MARKS)**Project Presentation [5 marks]**

Organization and presentation materials (i.e., **presentation slides/materials**)

Marks
5

Requirements [40 marks]

- | | |
|--|-----------|
| 1) Use of proper functions, user input, repetition, selection | 12 |
| 2) Use of 1d array/vector(compulsory)
- use of 2d arrays OR data structure OR files to store data(choose ONE) | 10 |
| 3) Program working properly ('bugs & errors free') | 6 |
| 4) Usage of extern storage category and header files | 4 |
| 5) Use of pointers | 4 |
| 6) Able to validate & handle all possible user input exceptions (robust) | 4 |

Bonus (ONLY IF (1), (2) & (3) above are met) [5 marks]

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|------------------------------------|----------|
| a) Uses 'Comments' for Readability | 2 |
| b) Creativity/Innovation | 3 |

SCORING RUBRICS

REQUIREMENTS	POOR	AVERAGE	GOOD	EXCELLENT
Proper design & usage of Functions, Selections & Repetitions	0 - 4	5 - 7	8 - 11	12
Proper usage of Arrays or Structures or Files	0 - 4	5 - 6	7 - 9	10
Program working smoothly (bugs & error free)	0 - 2	3 - 4	5	6
Usage of Extern & Header Files	0 - 1	2	3	4
Proper understanding & effective usage of pointers	0 - 1	2	3	4
Robustness of program	0 - 1	2	3	4

PROJECT REPORT (15 MARKS)

The project report is **DUE ON MONDAY, 25th DEC 2017 BEFORE MIDNIGHT (11.55 PM)**. Please submit a **SOFT COPY** of your report through italeem under the group submission link **"Project Report"**. Your report (6-8 pages) **MUST** contain the following information:

1. A **COVER PAGE** stating the **PROJECT TITLE**, **GROUP NAME** and **LIST OF MEMBERS**
2. A **SHORT INTRODUCTION** to your project.
3. A **FLOW CHART** describing the flow of your program.
4. THE **LIST OF PROGRAM FUNCTIONS** used in the program with a brief description of its usage.
5. Selected **SAMPLE OF SCREENSHOTS** for your program.