

## PROGRAMMING PROJECT GUIDELINES

### PROJECT EVALUATION: 20% (OUT OF 100 MARKS)

#### **PROGRAMMING PROJECT PRESENTATION (WEEK 14)**

**DATE : TUE - 13 JAN 2026 (\*Randomly assigned/Volunteer basis)**

**THU - 15 JAN 2026 (\*Randomly assigned/Volunteer basis)**

**TIME : CLASS TIME (1.45 PM – 3.20 PM)**

**VENUE : Teaching Lab 4 (PRESENTATION + Q&A SESSION)**

**\*NOTE: Each group presentation must be attended by ALL members of the group. Only presenting groups will need to be present at each presentation slot.**

#### **GROUPING RULES:**

- ❖ A maximum of 4 members and a minimum of 2 members in a group
- ❖ Each group is given approximately 15 minutes to present their project. The schedule for the presentation sessions can be reserved based on the available time slots (first come first serve).

#### **CODE DEVELOPMENT**

Your project **MUST** make use of the following Java components:

- i) User input & design
- ii) Selection and Repetition (of any type)
- iii) Classes Methods (both void and value-returning methods)
- iv) 1d Array AND 2d Arrays
- v) Input Output File
- vi) Exception Handling (Optional)

**The following basic methods are EXPECTED:**

- a) Insert data
  - b) View/Print data
  - c) Update data (requires a searching capability)
  - d) Delete data (optional/bonus)
- Each group will take turns to present their project in the dedicated venue. **Each group member MUST develop at least one method and indicate their contribution to the project (credits/acknowledgement to be made clear in the source codes).** The completed program must be submitted through **italeem** by the deadline.
  - Please prepare a presentation slide (no more than 6 pages) which includes project title and group members, overview/introduction to the project, list of classes & methods being developed and the flow charts of the project (broken down by modules).

- You may also be requested to demonstrate your working program, display your codes during the Q & A session and answer some technical questions. Make sure each member of the group has access to the complete program and has a complete knowledge of the project.
- **Place all relevant files in a folder** with the format **groupname\_section** (eg: **Al-Battani\_S5**) and **zip your folder**. **Submit your source codes right after the Q & A session** by uploading the files in **italeem** under the **group submission link** “Class Project”.
- After uploading your zip file in **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”**.
- **All programming and related files must be submitted as .java, .txt or .dat through italeem.**

### **PROJECT EVALUATION (80 MARKS)**

<b>Project Presentation &amp; Peer Evaluation [20 marks](5%)</b>	<b>Marks</b>
• Organization and presentation materials (i.e., <b>presentation slides</b> )	<b>10</b>
• Peer evaluation	<b>10</b>

### **Requirements [60 marks](10%)**

<b>1) Proper use of user input, repetition, selection</b>	<b>12</b>
<b>2) Proper use of classes and methods</b>	<b>15</b>
<b>3) Use of 1d array and 2d arrays to store data</b>	<b>12</b>
<b>4) Use of external files to save data</b>	<b>6</b>
<b>5) Program working properly (bugs &amp; errors free)</b>	<b>6</b>
<b>6) Able to validate &amp; handle possible user input exceptions (robust)</b>	<b>5</b>
<b>7) Uses appropriate ‘Comments’ to improve readability of source codes</b>	<b>2</b>
<b>8) Creativity/Innovation</b>	<b>2</b>

### **SCORING RUBRICS (\*TO BE DETAILED OUT SOON)**

<b>REQUIREMENTS</b>	<b>POOR</b>	<b>AVERAGE</b>	<b>GOOD</b>	<b>EXCELLENT</b>
Proper design & usage of User Input, Selections & Repetitions	0 – 5	6 – 7	8 – 10	11 – 12
Proper usage of classes and methods	0 – 6	7 – 9	10 – 12	13 – 15
Proper usage of Arrays	0 – 5	6 – 7	8 – 10	11 – 12
Suitable usage of files	0 – 2	3 – 4	5	6
Program working smoothly (bugs & error free)	0 – 2	3 – 4	5	6
Robustness of program (i.e., exception handling)	0 – 1	2 – 3	4	5
Uses appropriate ‘Comments’	0	1	2	
Creativity/Innovation	0	1	2	

**PROJECT REPORT (20 MARKS)(5%)**

The project report is **DUE ON SUNDAY, 18 JAN 2026 BEFORE MIDNIGHT (11.59PM)**.

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 METHODS** used in the program with a brief description of its usage.
5. Selected **SAMPLE OF SCREENSHOTS** for your **running program** (to simulate a particular user process).
6. **DO NOT print your codes and DO NOT include them in your report.**