

OBJECT-ORIENTED PROGRAMMING – MINI PROJECT (15% over 100% in overall course assessment)

THEME: Any

Mode: 4 person per group

Project Proposal Submission Due Date: 26 April 2022 (12.00PM noon)

Peer and Self-Assessment Form Submission Due Date: 19 June 2022

Project Source code Submission Due Date: 26 June 2022 (12.00PM noon)

Project Presentation: 28 June 2022 (In class time)

Instructions:

1. Project proposal

You can propose any system/application that based on java programming language. Your project should be able to apply at least 3 of the followings:

- a. Array (2D/3D)
- b. Encapsulation
- c. Data hiding
- d. Inheritance
- e. Polymorphism

What to include in your proposal?

- a. Title of your project
- b. UML diagrams that explain your entire project
- c. Expected output of your project

Submission:

1 proposal per group in video file format. Provide the link of your video (min 5 minutes and max 8 minutes), submit the accessible video link in PDF through E-learning.

****Note:** A short discussion about the project title suggestion will be made before the submission on 24 April 2022 (in class time)

2. Peer and self-assessment

Form will be provided before 19 June 2022. The assessment form should be submitted in individual mode. Assess your group members honestly based on each of their contributions. Assess yourself also based on your own contribution in the group project.

Form in excel file format (only 1 file per submission).

3. Project source codes

Project requirement:

Must be minimum 400 lines of codes and maximum 500 lines of codes. Done in Java programming language.

Completely implement at least 3 main concepts of OOP as planned previously in project proposal.

Source codes should be executable with the outputs as expected previously in project proposal

Submission:

All source codes (in .java file format) should be submitted through E-learning. 1 submission per group.

4. Presentation

All group members should involve in the project presentation on 28 June 2022 (8-11AM), each group should explain what is the project all about, explain the project source code and demo the project flow and outputs. Presentation of each group is around 15-20 minutes (include Q & A session). Prepare slides if necessary; prepare video presentation if necessary. If you want to do a pre-recorded video presentation, you need to submit the link of the presentation video before 28 June 2022 class time through E-learning. If you use PowerPoint slides as part of your presentation, submit also the slides in PDF through the E-learning before 28 June 2022. If you presentation not involving any supported presentation materials, please well-prepared for the live presentation on 28 June 2022.

Submission:

Optional for those with PowerPoint presentation slides and/or pre-recorded video. Due: before 28 June 2022 8AM.