FIT1051 S1 2022 - Ed Lessons

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Assessment #4

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Submission deadline: 15th May 2022 11:55pm AEST via Moodle



This assessment is worth 18% of the unit total. It contains 70 marks, which has two components.



MONASH UNIVERSITY WOULD LIKE TO CREATE AN APP TO MANAGE UNIT (SUBJECT) OFFERED BY FACULTY IN EVERY SEMESTER. THIS APP WILL CONSIST THE DETAILS OF THE UNIT.

YOU ARE REQUIRED TO DESIGN A JAVA CLASS FOR THE APP BASED ON THE SPECIFICATIONS AS BELOW TASKS

instance has the following attributes:

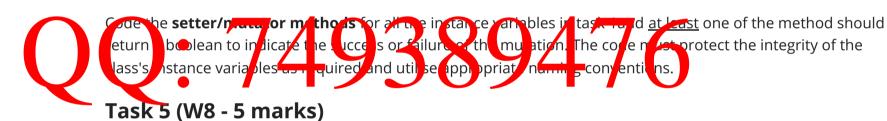
- **unitCode**: length of 7 characters (you can assume all unit code is 7 characters in length)
- unitName: length of 40 characters max

• credit Hour: represent by integer. Each unit has 6 credit he are by default unless specified. • offlert acutty ien kin of 21 characters. It will be the name out he act kly that offer the trait (eg. Sacuity of I) • onered This semester?: I an use the or false (if true - offer d this semester, if fasses not offered) Task 2 (W8 - 5 marks)

Code a non default three-parameter **constructor** with parameters for **unit code**, **credit hour** and **offer faculty**. Instance variables that are not taking parameter must be auto-initiliased with sensible default value. The

Code the **getter/accessor** methods for all the instance variables in task 1.

Task 4 (W8 - 20 marks)



Code a **toString** method for the class that output as below.

https://tube.code: FIT1051
Offered Faculty: Faculty of IT
Offered in this Semester? : true Offi

Task 6 (W8 - 10 marks)

Code a two parameters method called **customCreditHour** that takes in a **unit code** and **number of credit hours**. This method should use the parameters and check if the first 3 character of the unit code is not "FIT", then accept the unit code and number of credit hours. If the first 3 character is "FIT", then it should print an error message "Error. This is FIT unit and the no of credit hours is 6 by default"

e.g. calling the method customCreditHour("FIT1051", 12) will return "Error. This is FIT unit and the no of credit *hours is 6 by default"* . Declare your variables as appropriate.

You may assume any unit which is not offered by FIT should not be 6 credit hours by default.

Task 7 (W8 - 5 marks)

Write the main method code in a **UnitDriver** class that instantiates **Unit** objects to test successful and unsuccessful attempt as below.

> ======Successful Attempt====== Unit Code: FIT1051 Offered Faculty: Faculty of IT Credit Hour: 6 Offered in this Semester? : true ======Unsuccessful Attempt===== Unit Code: null Offered Faculty: FIT Credit Hour: 0 Offered in this Semester? : false

Code Readability (5 marks)

Overall code submission must be well organised and very easy to follow included but not limited to code indentation, code consistency, effective use of whitespace etc.

Code Development & Documentation (5 marks)

Overall code submission demonstrates correct method shell, syntax usage and meaningful naming conventions. Code documentations/inline comments are thorough and in detail.

Submission Instruction

Please submit your IntelliJ project folder as a .zip file and submit to via Moodle as below. If you are not sure how to zip your project, please refer to the video here.



Marking Rubric