FIT1051 S1 2022 - Ed Lessons

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Assessment #1

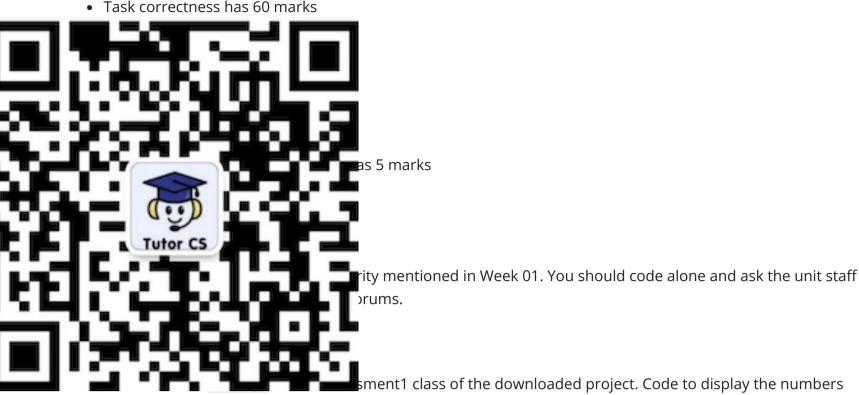
Assessment #1

Submission deadline: 13th March 2022 11:59pm AEST via Moodle

Instruction

# Below are the coding tasks that you need to complete individually for assessment 1. You should download the Intellij project folder as below and unzert. Then work out the tasks in the project folder. | Issues ment1.iii

This assessment is worth 6% of the unit total. It contains 70 marks, which has two components.



5,8,4 and 2 each on its own output line. Add them up in code and display their sum on yet another line.

Do this 3 ways:

1. Without using variables at all

## dent variables (one for each number) and another variable for their sum

Code in the method task2() in the Assessment1 class of the downloaded project. Code declaration statements (including the assignment of an initial value) for the following values:

• Your jogging speed in miles per hour (mph).

## Ste calacity of palser ger line transverse. The learning desk is minimum area. The lea

- The state of a right switch.
- The number of books on a library shelf.
- The amount of COVID vaccination a person can have so far.
- The current temperature of the day.

• The number of 7 te in a deck of cards.

The Method size of a complete thin.

The Me

declared and initialise before use)

Write code to display the value of each of the above together with a suitable description (e.g. Your height: 1.85m).

## Task 3 (15 marks)

ode in the method task3() in the Astessment it class of the down paded project. Declare variables with data at, int, String double and boole in and vive an of the nan in tial ensile value of the appropriate statements that cause an error. For each assignment statement, answer the following questions:

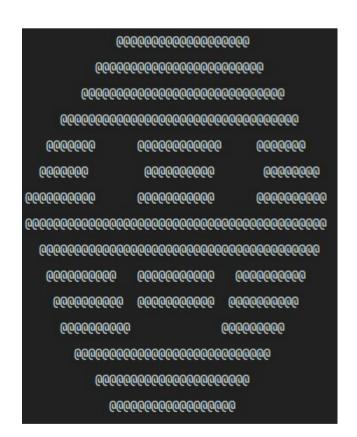
1. Which conversions does Java perform automatically?

2. Which conversions will Java perform with a cast? What are the side effects of these cast(s)?

Code the method task4() in the Assessment1 class of the downloaded project. Draw a smiley face using the alias symbol (@) as figure below. The height of the figure should be 15 lines. Output your smiley face using only one line of System.out.println().

Hint: You can use String concatenation & compound assignment operators.

**NOTE**: You are not allowed to use any selection control structure or repetition control structure as we have not covered the material yet.



## Task 5 (5 marks)

Code in the method task5() in the Assessment1 class of the downloaded project. Declare a String variable called s that is initialised as null and invoke a method to it. Then output your result in the IntelliJ terminal. An error will occur when you compile your code. Explain below as code comment.

1. What is the error?

2. Step by step how the error happens.

## 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 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.

**Assessment Submission** Assessment 1 (Weight: 6%) Submission link for Assessment 1. Submission can be done from 3rd March 2022 onwards until deadline. Please ensure that you submitted your IntelliJ project folder in .zip extension file.

**Marking Rubric**