UEENEED111A Develop, implement and test object oriented code

PROJECT

You are required to complete all details clearly:

FULL NAME	Kamaljeet Singh Karwal
Student ID	000845146
Course Unit Title	**UEENEED111A Develop, implement and test object oriented code**
Assignment Number	Project **This assessment contributes 20% of the final assessable result for the unit**.
Due Date	**Project Deadline** **Wednesday, 17 May 2016, by end of class** ✓ For any extension to be considered you need to: - apply for the extension **before the date of the milestone** - you need a good reason for an extension of time. Generally, you can only get an extension on medical evidence or compassionate grounds and some kind of documentary evidence like a doctor's certificate is usually necessary. - **all late submissions will attract a 10% per day penalty**

I understand that:

- I am encouraged to discuss ideas and techniques **broadly** with other class members, but not specifics of assigned problems. Sharing of code or intermediate designs is considered plagiarism.
- I may use software and materials available from other sources (understanding that I will get no credit for using the work of others on those parts of my project) as long as:
  1) I acknowledge explicitly which aspects were taken from other sources and what those sources are.
  2) The materials are freely and legally available.
  3) The material was not created by a student at TAFE SA as part of this course this year or in prior years.

I declare that the work contained in this assignment is my own, except where acknowledgement of sources is made.

I authorise TAFESA to test any work submitted by me for instances of plagiarism, by any method required. I understand that this may involve the storing of the work electronically or otherwise, so that it can be used in the future for testing other students' work.

Student Signature: **Date:** 17/05/2017

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MARKING SHEET

Functionality - You are required to write a program which implements a versatile conversion tool. - 5 different types of conversions and for each type at least 3 different units. - The conversions are accurate	/35
Code Design - include input validation and make sure you include exception handling - design a clean, simple solution with an object-oriented design	/35
GUI Design - at least 2 panels and 4 components - application of interface design rules	/20
Completeness of solution	(multiplier)
PowerPoint presentation	/10
TOTAL MARK	/100

Submit the solution for the following problem:

You are required to write a program which implements a versatile conversion tool.

The tool needs to implement at least 5 different types of conversions and for each type at least 3 different units. As an example, see http://www.unit-conversion.info/length.html

You need to:

- create a Java desktop application that provides a GUI which allows the choice of conversion type and then the choice of conversion units from that type. The GUI should allow input of the value to be converted and then output the converted value.
- research the topic *Rules of Interface Design* and apply some of these rules to your design.

Other requirements:

- you need to use at least 2 panels and 4 different components
- include input validation and make sure you include exception handling
- design a clean, simple solution with an object-oriented design
- prepare a short Powerpoint presentation which shows which rules of interface design you used and how you implemented them (see the research topic above).

You are required to hand in:

- all the Java source for your solution
- the Powerpoint slides