CRS Assignment Brief

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| **CRS** | Artificial Intelligence |
| **Subject Name & Unit Title** | Programming for problem solving  Assignment 1- Unit Converter |
| **Intended Learning Outcomes Assessed** | * Heuristics to solve problems * Develop cognitive approach to problem solving * Foundation of Java Programming language * Learn basic constructs of programming |
| **Assignment title** | Unit Converter |
| **Purpose/Rationale of the Assignment** | The purpose of this assignment is to introduce learners to programming in Java and familiarize them with approaching problems and solving them using programming. |
| **Referencing Style and Guidance** | NA |
| **Style and Formatting Guide** | NA |
| **Word Count (if any)** | 250-300 words |
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| **Scenario or Context** |  |
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| **Task 1** | **Unit converter:**  Write a program for a unit converter.  The program must input a string recording what kind of unit to be converted. This unit converter should convert converter converts basic units such as temperature (degree to Fahrenheit), volume (liter to milliliter), and mass (kg to pounds).  Start with the pseudocode, then a flowchart and Java code.  Based on the input, the program must decide what to convert and execute the commands for the same. |
| **Checklist of evidence required** | Submit the summary of your work in 250 – 300 words along with the screenshots of output, flowchart, pseudocode and code. This should be submitted before starting Module 3. |
| **Assessment Criteria: 10 Marks**  **(Rubrics)**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Parameter** | **Exceeds Expectations (2-2.5)** | **Meets Expectations (1-2)** | **Needs Improvement**  **(Below 1)** | **Score (Out of 2.5)** | | Understanding of the problem | The paper was written as per the requirements and addresses the problem fully. | The requirements were mostly understood and addressed, except for minor details. | The requirements were not understood and the program/algorithm doesn’t give the right solution. |  | | Knowledge of the topic | Outstanding knowledge of the topic. | Fair knowledge of the topic. | Weak knowledge of the topic. |  | | Spelling and grammar | Almost no grammatical errors. | Some grammatical errors found. | Many grammatical errors. |  | | Sources and citations | Well referenced sources and citations. | Some sources/ citations missing, but most covered. | No sources/citations included and copied content without due credits |  | | Total (Out of 10) |  | | |  | | |
| **Sources of information to support you with this Assignment** | Use the links below for commands for help with commands  <https://www.ebookbou.edu.bd/books/text/sst/dcsa/dcsa_1303/unit-04.pdf>  <https://www.javatpoint.com/java-tutorial> |
| **Other assessment materials attached to this Assignment Brief (if any)** |  |