ASSESSMENT BRIEF

Component Title:	Fundamentals of Object-Oriented Programming		
Component Code:	5N0541	**Level**:	5
Assessor:	Paul Du Berry		
Assessment Technique:	Skills Demonstration		
Title of this Assessment Activity:	Skills Demonstration 1		
Weighting regarding this brief in %:	20%		
Learning Outcomes Assessed:	1, 5, 9, 10 and 11		

Assessment activity guidelines/instructions to learners:

Create a C# console app that uses a single class to convert a user supplied value from Fahrenheit to Celsius and a second user supplied value that converts from Celsius to Fahrenheit and print the results to the screen.

- Devise and document a simple algorithm based on the problem statement using pseudocode.
- The converted values can be displayed sequentially (one after the other) and must be formatted to display the conversion to two decimal places.
- **Explicit** 'Type Conversion' must be employed.
- An object of the class must be instantiated in the testing (driving) class.
- The title of the app (`Welcome to the Temperature Conversion app.`) must be displayed, in an attractive box using lines **and/or** stars, in the console during execution.
- Use two methods that are called during execution
- The two methods must return the result of the calculation to the calling method
- Finally, the app must be released using the following command:
  `dotnet build --configuration Release`

Items to be included:

1. Commenting of relevant lines of code must be included starting with your name in line 1 and the name of the app in line 2.
2. Marks are available for indentation and whitespace for program maintainability along with meaningful identifiers for variable, class and method names.
3. A Test Plan, expected results and actual results must be carried out and handed up. (4 tests required)
4. An electronic copy of the Test Plan must be submitted and the brief must be returned also with the Authorship Statement signed and dated.
5. The soft copy of the solution and the recording must be shared with the tutor at paul.duberry@tcfe.ie using the following naming scheme 'firstname_lastname_FOOP_skills_demo1.zip'.

Assessment Criteria:	Maximum mark/grade:
1. Clearly Documented Source Code: • Algorithm provided. • Intelligent use of comments.	4
2. Program Functionality: • Working program • Prudent use of print formatting	4
3. Accurate Programming (Syntax and Semantics): • appropriately named identifiers (class, method, fields/variables) • correctly implemented data types • appropriate data type conversion performed • no syntax or semantic errors	8
4. Software Testing/Debugging: • evidence of software testing, e.g., documentation of problems/bugs • screen captures, visual/digital evidence provided	4

Issue Date: 8th February 2024 **Submission Date:** 22nd February 2024

Learner declarations	☑
I understand TETB's policy and procedure on assessment deadlines	✓
I have been informed to keep a copy of my work before I submit it for assessment *(except practical artefacts)*	✓
I understand TETB's policy and procedure around assessment malpractice	✓
All work presented in this portfolio is entirely my own and sources of information have been acknowledged as appropriate	✓

Learner Signature:  **Date:** 21 / 02 / 2024

Important!

- The presented document is your final submission and cannot be returned for redrafting; therefore, ensure all the checks have been done prior to submitting.
- Due date is final.
- Plagiarism of any kind will result in 0% for the demonstration.
- Late submissions will not be accepted in this case.