COP2220 Project 1 – Unit Conversion Tool 100 Points

Submission Requirements

- Submit your project folder via the FileUploader tool provided on the website
 - o Follow the project submission guidelines for the class

Design Documentation Requirements

Note: Create a "Design Documents" folder in the project folder to store the design documents.

- Flowchart of the main() function
- Pseudocode of the main() function

Design Specification Requirements

Note: Refer to the sample output in the Example Output section below.

- 1. Display your name and the project title on separate lines, followed by a blank line
- 2. Prompt the user for 3 integer numbers (i.e., 0, 1, 2, ...)
 - A. A temperature in Fahrenheit degrees
 - B. A distance in feet
 - C. A weight in pounds

Note: Display each prompt on a separate line

- 3. After displaying each prompt, read the user's input
 - A. The input values should appear to the right of their respective prompts
 - B. Store the input values in separate variables of the appropriate type (integer)
- 4. Perform the required conversions using the provided equations
 - A. Fahrenheit to Celsius C = (F 32) * 5 / 9B. Feet to meters M = F * 0.3048C. Pounds to kilograms K = P * 0.4536
 - D. Store the converted values in separate variables of the appropriate type (double)
- 5. Display the program output
 - A. Display a blank line after the last input prompt
 - B. Display the results using the sample output in the Example Output section as a guide
 - 1. Use a width of 15 characters for each column of the output
 - 2. Display converted values to three decimal places

Additional Notes

- Use only one variable for each value (there are 6 variables in this project)
- Define constants for the decimal values used in the Feet and Pounds conversion equations
- Define constants for the format strings used to display the report's header and rows
- Assume the user enters valid data (don't worry about verifying the input values for errors)
- Do not use functions (all statements must be located in the main() function)
- Ensure your source code conforms to the commenting standards for the class

Example Output

Ima C Student
Project 1 - Unit Conversion Tool

Enter a Fahrenheit temperature (integer): 212

Enter a distance in feet (integer): 5280 Enter a weight in pounds (integer): 200

Original	Value	Converted to	Value
Fahrenheit	212	Celsius	100.000
Feet	5280	Meters	1609.344
Pounds	200	Kilograms	90.720