Practice Problem: Even/Odd and Recursive Factorials with Namespaces in C++

CSE3150

Requirements

- 1. Create a namespace CheckUtils in its own file with:
 - bool is_even(int n) returning true if the number is even, false otherwise.
 - bool is_odd(int n) returning true if the number is odd, false otherwise.
- 2. Create another namespace MathExtras in its own file with:
 - int factorial(int n) that calculates the factorial of n using recursion.
- 3. Put declarations into header files and definitions into .cpp files.
- 4. Write a main.cpp that:
 - Defines two integers, for example a = 5 and b = 6.
 - Prints whether each is even or odd using CheckUtils.
 - Prints the factorial of the first number using MathExtras.
- 5. Place your headers in a folder called include, and the cpp files in a folder called src.

Test File (test_check.py)