**Unit testing of load\_products\_from\_csv**

The purpose of the load\_products\_from\_csv function is to read and parse a CSV file containing information about products. The function should handle various scenarios, including invalid input types, incorrect file paths, and malformed CSV files.

**Invalid Input Type Tests:**

Tests are conducted to ensure that the function raises a TypeError when provided with invalid input types. These tests cover cases where the input is an integer, a float, and a list. Each test corresponds to an invalid equivalent class (IEC).

Test 1 (test\_int\_input): Checks if the function raises a TypeError when given an integer as input.

Test 2 (test\_float\_input): Checks if the function raises a TypeError when given a float as input.

Test 3 (test\_list\_input): Checks if the function raises a TypeError when given a list as input.

**File Path and Content Tests:**

The following tests focus on file-related scenarios, such as incorrect file paths, invalid values in the CSV file, and handling files with missing or extra columns. Test 4 to 7 correspond to four invalid EC, the last 3 correspond to three valid EC.

Test 4 (test\_incorrect\_file\_path): Ensures that the function raises a FileNotFoundError when given a file path to a non-existent file.

Test 5 (test\_invalid\_values\_in\_file): Verifies that the function raises a ValueError when encountering invalid values (e.g., a float in the 'Units' column).

Test 6 (test\_empty\_string\_value): Checks if the function correctly handles CSV rows with empty values.

Test 7 (test\_missing\_columns): Tests the function's behavior when encountering a CSV file with missing columns.

Test 8 (test\_valid\_file\_path): Validates that the function correctly loads products from a valid CSV file, including checking the details of a specific product.

Test 9 (test\_empty\_file): Ensures the function handles an empty CSV file gracefully.

Test 10 (test\_extra\_columns): Verifies that the function correctly loads products from a CSV file with extra columns, ignoring the additional information.