

Project Name: Online shopping cart	
Automation Title: test_get_products	Version: 1.0
Testing Phase: Phase 1	Date of Test: 28/11/2024
Module Name: product_data.py	

Function Title: get_products(file_name)	Test Designed by: Rushidharan Baskar
Test Priority (Low/Medium/High): Medium	Test Designed Date: 26/11/2024
Description: The get_products(file_name) function reads product data from a specified file, typically a CSV or JSON, and returns a list or dictionary of products, each containing details like name, price, and stock.	Test Executed by: Rushidharan Baskar
	Test Execution date: 28/11/2024

S. No	Equivalence Class	Test Case	Expected Results	Actual Results	Status	Notes
1	VEC1	Test a CSV file with two products: Apple and Banana.	Returns a list of two products: Apple with price 2.0, units 10; Banana with price 1.0, units 5.	As expected.	Pass	Basic functionality test for valid inputs.
2	VEC2	Test a CSV file with products of different types (e.g., Apple and Laptop).	Returns a list with correct details for both products.	As expected.	Pass	Verifies handling of different product types.
3	VEC3	Test a CSV file where product prices have decimal values.	Returns correct prices with decimals (e.g., 2.99 for Apple).	As expected.	Pass	Ensures correct parsing of decimal prices.
4	VEC4	Test a CSV file containing only one product.	Returns a list with one product.	As expected.	Pass	Verifies functionality for minimal data set.

5	VEC5	Test a CSV file with products having zero units.	Returns products with correct units, including zero units where applicable.	As expected.	Pass	Checks handling of products with zero inventory.
6	VEC6	Test a CSV file with large numeric values for price and units.	Returns products with large numeric values parsed correctly.	As expected.	Pass	Ensures proper handling of large numeric values.
7	VEC7	Test a CSV file with duplicate product names.	Returns a list with all products, including duplicates, parsed correctly.	As expected.	Pass	Verifies functionality with duplicate entries.
8	VEC8	Test a CSV file with 1000 product entries.	Returns a list containing 1000 products.	As expected.	Pass	Confirms scalability for large data sets.
9	VEC9	Test a CSV file where all products have zero units.	Returns products with correct details, including units = 0.	As expected.	Pass	Checks robustness for edge case of zero units.
10	VEC10	Test a CSV with different combinations of valid inputs for price and units.	Correctly parses all valid combinations and returns accurate product details.	As expected.	Pass	Comprehensive check for multiple equivalence classes.
11	IEC1	Test with a file path that does not exist.	Raises "File not found".	As expected.	Pass	Validates error handling for nonexistent files.
12	IEC2	Test a CSV file with missing columns (e.g., missing "Units").	Raises "Key error" due to incomplete data.	As expected.	Pass	Checks error handling for malformed CSV.
13	IEC3	Test a CSV file with a non-numeric price value (e.g., "abc" instead of a number).	Raises "ValueError".	As expected.	Pass	Verifies validation of numeric price values.
14	IEC4	Test a CSV file with a non-numeric unit value (e.g., "abc" instead of a number).	Raises "ValueError."	As expected.	Pass	Ensures proper validation for numeric units.