Report: Coverage for searchAndBuyProduct()

Using a tool called pytest-cov, we can check how much coverage our software has. After running a coverage test for the whole document to gather data that we need, we get the following:

| Coverage report: 87% coverage.py v7.3.4, created at 2023-12- | -27 23:58 +0100 | | | |
|--|-----------------|---------|----------|----------|
| Module | statements | missing | excluded | coverage |
| checkout_and_payment.py | 95 | 5 | 0 | 95% |
| login.py | 42 | 30 | 0 | 29% |
| logout.py | 11 | 1 | 0 | 91% |
| <u>products.py</u> | 37 | 0 | 0 | 100% |
| test_search_and_buy_product.py | 93 | 0 | 0 | 100% |
| Total | 278 | 36 | 0 | 87% |
| coverage.py v7.3.4, created at 2023-12-27 23:58 +0100 | | | | |

Overall the coverage done for the project is 87%.

What we are interested in though is *searchAndBuyProduct()*, which is located in the *products.py* module. The coverage for the module is 100%, which means our testing scripts have a satisfying complete coverage with our testing implementations.

```
30 | def searchAndBuyProduct():
     login_info = None
    marker = True
     while marker:
        login_info = login()
         if login_info is not None:
             marker = False
38
              break
     while True:
        search = input("Search for products in inventory (type all for whole inventory):")
          if search.lower() == "all":
              display_csv_as_table("products.csv")
             display_filtered_table("products.csv", search)
          check = input("Ready to shop? (Y/N)")
           if check.lower() == "y":
              break
       checkoutAndPayment(login_info)
```

All branches and lines in the function have been covered in one way or another with different testings, resulting in a total of 17 statements (or lines) being executed from the function. There are 2 while loops and 3 if conditions, one of the latter being an if-else statement, making 5 different branching points in the code.