Test 1: Testing the main menu

```
1  def test_main_menu(supermarket, capsys):
2      supermarket.show_main_menu()
3      captured = capsys.readouterr()
4      assert "Welcome to the supermarket!!" in captured.out
5      assert "Author: Michell " in captured.out
6      assert "Select an option:" in captured.out
7      assert "1. FOOD " in captured.out
8      assert "2. TOILETRIES " in captured.out
9      assert "3. VIEW RECEIPT " in captured.out
10     assert "4. EXIT" in captured.out
```

Test 2: Testing the food products

```
1  def test_food_products(supermarket, capsys):
2      supermarket.show_available_products(supermarket.food_products)
3      captured = capsys.readouterr()
4      assert "Available Products:" in captured.out
5      assert "1. Apples  - $2.5" in captured.out
6      assert "2. Bananas  - $1.8" in captured.out
7      assert "3. Grapes  - $3.0" in captured.out
8      assert "0. Back to main menu" in captured.out
```

Test 3: Testing the toiletry products

```
1  def test_toiletry_products(supermarket, capsys):
2      supermarket.show_available_products(supermarket.toiletry_products)
3      captured = capsys.readouterr()
4      assert "Available Products:" in captured.out
5      assert "1. Soap  - $2.0" in captured.out
6      assert "2. Shampoo  - $3.5" in captured.out
7      assert "3. Toothpaste  - $2.0" in captured.out
8      assert "0. Back to main menu" in captured.out
```

Test 4: Testing the view receipt

```
1 def test_view_receipt(supermarket, capsys):
2     supermarket.add_product("apples ", 2.5, 2)
3     supermarket.view_receipt()
4     captured = capsys.readouterr()
5     assert "Receipt:" in captured.out
6     assert "2 apples  - $5.0" in captured.out
7     assert "Total Amount: 5.0" in captured.out
```

Test 5: Testing the add product

```
1 def test_add_product(supermarket):
2     supermarket.add_product("apples ", 2.5, 2)
3     assert len(supermarket.current_purchase) == 1
4     assert supermarket.current_purchase[0]["name"] == "apples "
5     assert supermarket.current_purchase[0]["price"] == 2.5
6     assert supermarket.current_purchase[0]["quantity"] == 2
```