

Project

business.py × db.py × products.csv × test.py ×

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

```
#!/usr/bin/env python3

import csv
from business import Product








FILENAME = "products.csv"

def get_products():
    products = []
    with open(FILENAME, newline="") as file:
        reader = csv.reader(file)
        for row in reader:
            # convert row to product object
            product = Product(row[0], float(row[1]), int(row[2]))
            products.append(product)
    return products
```

Database

SciView

Run: test ×



Product: Life of Brian (DVD)

Price: 8.97

Quantity: 2

Total: 14.36

Process finished with exit code 0

```
if __name__ == "__main__":
```

Run: shopping_cart ✕

```
/Users/siakhorsand/Desktop/CIMP/Assignment15/venv/bin/python /Users/siakhorsand/Desktop/CIMP/Assignm
The Shopping Cart Program
```

COMMAND MENU

cart - Show the cart

```
add - Add an item to the cart
```

del - Delete an item from the cart

`exit` - Exit the program

PRODUCTS

Item	Name	Price	Discount	Your Price
1	The Holy Grail (DVD)	4.75	30%	3.32

2	Life of Brian (DVD)	8.97	20%	7.18
---	---------------------	------	-----	------

3	The Meaning of Life (DVD)	6.50	15%	5.53
---	---------------------------	------	-----	------

Command:

Project

business.py db.py shopping_cart.py products.csv test.py

32

print()

33

34

35

def show_cart(cart):

36

if cart.get_item_count() == 0:

37

print("There are no items in your cart.\n")

38

else:

39

header_format = "{:<5s} {:<25s} {:>12s} {:>10s} {:>10s}"

40

detail format = "{:<5d} {:<25s} {:>12.2f} {:>10d} {:>10.2f}"

show_cart() > else

Database

SciView

Run: shopping_cart

↑

↓

↶

↷

🖨

🗑

/Users/siakhorsand/Desktop/CIMP/Assignment15/venv/bin/python /Users/siakhorsand/Desktop/CIMP/Assignm

The Shopping Cart Program

COMMAND MENU

cart - Show the cart

add - Add an item to the cart

del - Delete an item from the cart

exit - Exit the program

PRODUCTS

Item	Name	Price	Discount	Your Price
1	The Holy Grail (DVD)	4.75	30%	3.32
2	Life of Brian (DVD)	8.97	20%	7.18
3	The Meaning of Life (DVD)	6.50	15%	5.53

Command: add

Input number: 3

Quantity: 5

Item1 was added.

Command: add

Input number: 1

Quantity: 2

Item2 was added.

Command: cart

Item	Name	Your Price	quantity	Total
1	The Meaning of Life (DVD)	5.53	5	27.65
2	The Holy Grail (DVD)	3.32	2	6.64
				34.29

Command: |

Structure

Bookmarks

Assignment15shopping_cart.py

shopping_cart

business.pydb.pyshopping_cart.pyproducts.csvtest.py

Project

Database

SciView

32

print()

33

34

35

def show_cart(cart):

36

if cart.get_item_count() == 0:

37

print("There are no items in your cart.\n")

38

else:

39

header_format = "{:<5s} {:<25s} {:>12s} {:>10s} {:>10s}"

40

detail_format = "{:<5d} {:<25s} {:>12.2f} {:>10d} {:>10.2f}"

41

print(header_format.format("Item", "Name", "Your Price",

42

"quantity", "Total"))

43

i = 0

44

for item in cart:

45

print(detail_format.format(i + 1, item.product.name,

46

item.product.get_discount_price(),

47

item.quantity, item.get_total()))

48

i += 1

49

print("{:>66.2f}".format(cart.get_total()))

50

print()

51

52

53

def add_item(cart, products):

54

number = int(input("Input number: "))

55

quantity = int(input("Quantity: "))

56

if number < 1 or number > len(products):

57

print("No product has that number.\n")

58

else:

59

product = products[number - 1]

60

item = LineItem(product, quantity)

61

cart.add_item(item)

62

print("Item" + str(cart.get_item_count()) + " was added.\n")

63

64

show_cart() > else

Run: shopping_cart

↑

↓

↕

↔

🔧

🗑️

📌

🔍

Command: del

Input number: 2

Item 2 was removed from cart.

Command: cart

Item	Name	Your Price	quantity	Total
1	The Meaning of Life (DVD)	5.53	5	27.65
				27.65

Command:

Version Control

Run

TODO

Problems

Terminal

Python Packages

Python Console

Event Log

41:10

LF

UTF-8

4 spaces

Python 3.8 (Assignment15)

Assignment15shopping_cart.py

shopping_cart

business.pydb.pyshopping_cart.pyproducts.csvtest.py

DatabaseSciView

32333435363738394041424344454647484950515253545556

```
print()

def show_cart(cart):
    if cart.get_item_count() == 0:
        print("There are no items in your cart.\n")
    else:
        header_format = "{:<5s} {:<25s} {:>12s} {:>10s} {:>10s}"
        detail_format = "{:<5d} {:<25s} {:>12.2f} {:>10d} {:>10.2f}"
        print(header_format.format("Item", "Name", "Your Price",
                                   "quantity", "Total"))

        i = 0
        for item in cart:
            print(detail_format.format(i + 1, item.product.name,
                                       item.product.get_discount_price(),
                                       item.quantity, item.get_total()))

            i += 1
        print("{:>66.2f}".format(cart.get_total()))
        print()

def add_item(cart, products):
    number = int(input("Input number: "))
    quantity = int(input("Quantity: "))
    if number < 1 or number > len(products):
        show_cart()
    else
```

Run: shopping_cart

Input number: 2

Item 2 was removed from cart.

Command: cart

Item	Name	Your Price	quantity	Total
1	The Meaning of Life (DVD)	5.53	5	27.65
				27.65

Command: add

Input number: 4

Quantity: 5

No product has that number.

Command: del

Input number: 2

The cart does not contain an itemwith that item number

Command: exit

CYA

Version ControlRunTODOProblemsTerminalPython PackagesPython ConsoleEvent Log

54:1 LF UTF-8 4 spaces Python 3.8 (Assignment15)