Dmitriy Penzin

March, 8 2022

Foundations Of Programming: Python

https://github.com/Taccdimas/IntroToProg-Python-Mod08

Assignment 08 – Classes

The purpose of this assignment is to create a script using custom classes.

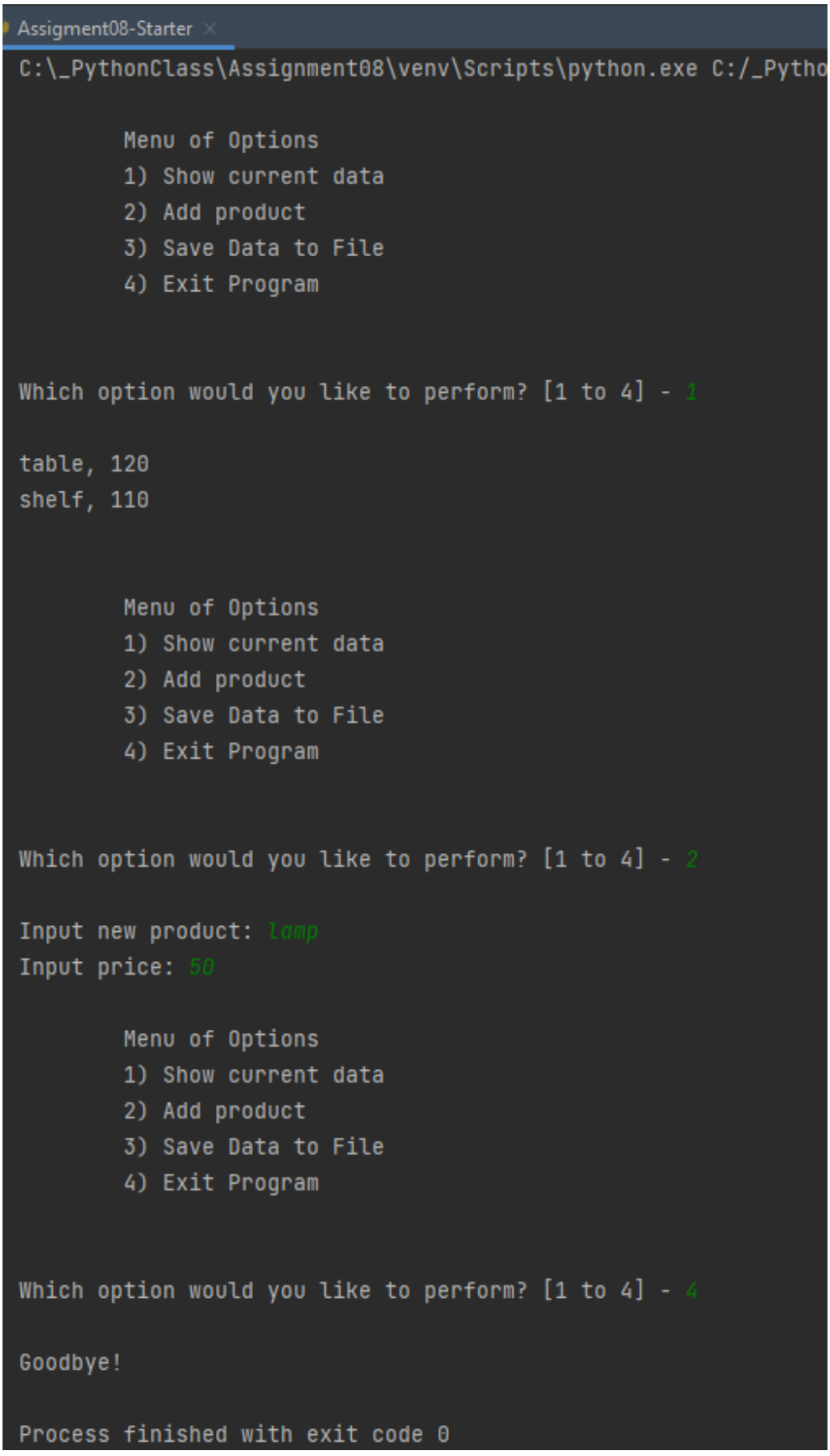
Class pattern:

```
# -- Fields --
# -- Constructor --
#         -- Attributes --
# -- Properties --
# -- Methods --
```

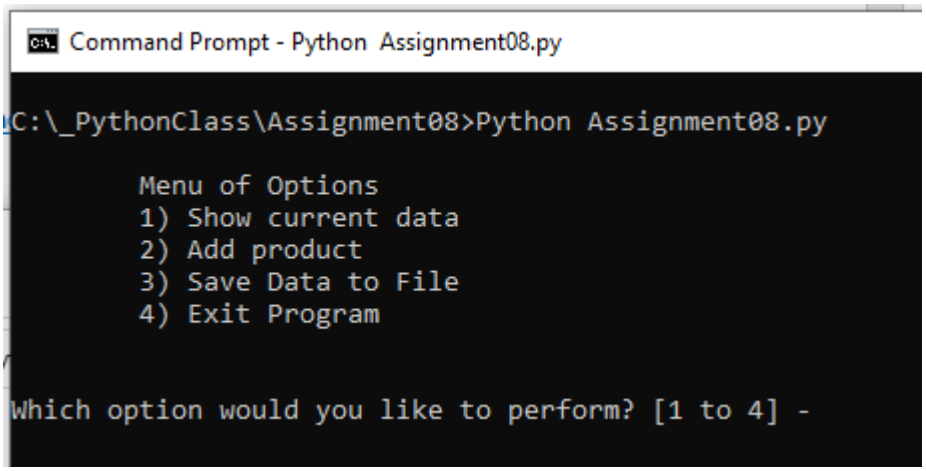
Steps I took in performing Assignment 08:

1. I watched the module video
2. I read Chapter 8 of the book
3. I read a web article and watched few YouTube videos on the topic
4. I modified a script including the class Product.
5. GitHub Desktop was installed and used to post repository.

Running script:



Running from CMD:



Constructor:

Constructor run automatically every time we create a new object from the class

```
def __init__(self, product, price):  # Constructor
    self.__product = product
    self.__price = price
```

Properties:

These are functions to manage data

```
@property  # PRODUCT
def product(self):
    return str(self.__product)

@product.setter
def product(self, value):
    self.__product = value
```

Menu for user:

```
while (True):
    IO.output_menu()  # Shows menu
    choice_str = IO.input_menu_choice()  # Get menu option
    if choice_str == '1':  # Show current data
        IO.show_data(list_of_rows=lstOfProductObjects)
    if choice_str == '2':  # Add new product
        k = IO.add_product()
        lstOfProductObjects.append(k)
    if choice_str == "3":  # Save data to file
        FileProcessor.save_data_to_file(file=strFileName, data=lstOfProductObjects)
    elif choice_str == '4':  # Exit Program
        print("Goodbye!")
        break  # by exiting loop
```

Summary:

During the work on this assignment, I modified a scrip. It writes data to file and reads data from file. This script also demonstrated basic exceptions. Module8 video and notes were very helpful.