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IT FDN 110 A Su 21: Foundations of Programming Python

Assignment08

<https://github.com/Protemis/IntroToProg-Python-Mod08>

Assignment 08

# Introduction

In this assignment I will explain the steps that I used to update a Python script that enables a user to manage a product list. The script guides the user through a printed “menu”. The script builds upon my previous knowledge with defining functions, classes, function document headers. Since the assignment was like Assignment 6, I leveraged a lot of assignment 6’s code. Since the # todo comments did not refer to some of the functions that I defined in assignment 6 such as removing a product, I left those out for simplicity.

# Drafting the Code

## Data

I started by defining my Product() class. After initializing the product objects state, I added an additional constructor method to return a string with product name and price separated by a comma. I then created the getter and setter properties creating error handling to check if the product name is not numeric and if the product price is numeric. For the product price, rather than creating an if statement to check, I just tried casting the value into a float with error handling.

I then updated the FileProcessor() class. I updated the functions that I used in Assignment 6 to work with the product class and objects. One issue, that I had was that I had unintentionally indented file close in the read\_data\_from\_file() function. The result is that the code would only read the first row in the .txt file before closing. I identified the issue with debugging and was able to resolve it by moving the file.close in line with the for loop.

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Figure 1-1: Screenshot corrected indent for file.close()

## Presentation (Input/Output)

I leveraged my functions in the Assignment 6 presentation section for Assignment 8 modifying them to create a product object and add print the products in the list of products in a formatted manner

## Main Body of Script

I simplified the main body to only 4 choices in line with the # todos and called the classes and functions that I had defined earlier as needed.

## Running the script

I ran the script in PyCharm (figure 1-2) and then opened the command prompt on my windows computer and copied the file path.

I then used the python.exe command with the file path to run my script, Assigment08\_Revised.py. The script ran as expected (figure 1-3)

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Figure 1-2: Screenshot showing commands to locate the proper folder and run Assigment08\_Revised.py in PyCharm

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Figure 1-3: Screenshot showing commands to locate the proper folder and run Assigment08\_Revised.py in windows command prompt

Graphical user interface, application

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Figure 1-4: Screenshot of product.txt directory location and contents

# Summary

Using what I learned in Module 08, I was able to successfully revise the Assigment08\_Starter.py program. The program demonstrates my basic knowledge of working with classes and objects.