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IT FDN 110 A Wi 22: Foundations of Programming: Python

Assignment 08

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

Classes and Objects

# INTRODUCTION

This code was to create a series of classes to allow for an easier to follow and easier to modify code which improves flexibility.

# DATA

## Class Product

### Add Code to the Product class

The primary part of the Product class was to define the two main attributes of the code, product price and product name. I then included two setters, one to insure that product name was non-numerical and one to insure the price was numerical.

Text

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Figure 1.1

# PROCESSING

The next portion of the code was to create methods within the FileProcessor class. This needed two methods. One to read data from the file and add it to a list of lists and one to save the current list to the file.

A screenshot of a computer

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Figure 1.2

# PRESENTATION

In the presentation portion, there were four methods to be created, one to print a menu for the user, one to get record which option the user is selecting from the menu, one to display the current information in the data, and lastly a method to request new products from the user.

The first is a simple print function, the second is setting a variable to an input, the third has a for loop to print each product row and lastly setting a Product to two inputs

Text

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Figure 1.3

# MAIN BODY OF SCRIPT

Finally the main body of the script brings together all the classes created. The code calls the print\_menu method, and then the get\_user\_choice method.

This is followed by several conditional which direct the code to different methods depending on what the user selects. Text

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Figure 1.4

# CONCLUSION

The multiple classes allow different parts of the code to be called in small chunks to make it easier to parse what a section is doing and also to call a chunk of code several times without having to copy the code.