Emanuel Waktola

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IT FDN 110 A Su 21: Foundations of Programming Python

Assignment06

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

<https://protemis.github.io/IntroToProg-Python-Mod06/>

ToDo List

# Introduction

In this assignment I will explain the steps that I used to update a Python script that enables a user to manage a todo list. The script guides the user through a printed “menu”. The script builds upon my previous knowledge with defining functions, classes, function document headers.

# Drafting the Code

## Writing the code

I started by reading the starter file to understand the current state of the script and what I needed to add.

I then started writing and testing the paired functions in the Processor and IO classes (for example input\_new\_task\_and\_priority() and add\_data\_to\_list(task, priority, list\_of\_rows)). I thoroughly tested them before adding them into the main script.

I was a bit confused as to the purpose of the ‘Success’ string at the end of the Processor classes (see Figure 1). I realized that function was packing a tuple of list\_of\_rows and the ‘Success’ string. I can unpack the tuple in the main body of the script and use the corresponding strStatus in the function input\_press\_to\_continue(strStatus). Once I realized that, I added additional messages to the ‘Success’ strings.

Defining functions and calling them was very similar to defining macros and using them later in SQL.

Text

Description automatically generated

Figure : Function with 'Success' string

Finally, I added function document headers to the functions as well as added comments to the main body of the script, specifically in the process user’s menu choice.

## Running the script

I ran the script in PyCharm and then opened 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, Assigment06\_Revised.py. I followed the user prompts to enter an item and an estimated value. The script ran as expected (figure 2-4)

Text

Description automatically generated

Figure 2: Screenshot showing commands to locate proper folder and run Assigment06\_Revised.py in PyCharm

Text

Description automatically generated

Figure 3: Screenshot showing commands to locate proper folder and run Assigment06\_Revised.py in windows command prompt

Graphical user interface, text

Description automatically generated

Figure 4: Screenshot of Assigment06\_Revised.txt directory location and contents

# Summary

Using what I learned in Module 06, I was able to successfully revise the Assigment06\_Starter.py program. The program demonstrates my basic knowledge of defining functions, classes, function document headers.