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IT FDN 110 A Su 21: Foundations of Programming Python

Assignment05

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

ToDo List

# Introduction

In this assignment I will explain the steps that I used to create 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 error handling, working with dictionaries and lists, reading and writing from a text document.

# Drafting the Code

## Writing the code

1. Step 1
   1. The script starts by opening the file called todo list.txt and saves the contents in a list called listtable. There is error handling if the file does not exist.
2. Step 2
   1. The script displays a menu for the user and prompts them to select 1-5.
3. Step 3
   1. If the user selects 1, the script will print what is in the current lsttable in a formatted way.
4. Step 4
   1. If the user selects 2, the user is prompted to enter the task and priority. The inputs are added to a dictionary variable which is appended to the lsttable.
5. Step 5
   1. If the user selects 3, the user is prompted to enter which task they want to remove. If the task that they want to remove is in the lsttable then the task is removed if not the user is returned to the main menu.
6. Step 6
   1. If the user selects 4 the script creates a txt file called ToDoList (if it does not exist already) with a relative directory and writes the two-dimensional tbl list as a row in a table, and closes the file.
7. Step 7
   1. If the user selects 5, I added an exit verification if statement to verify that the user wanted to exit the program. If the user selects anything other than ‘y’ then the user will get a message (depending on the selection) and will return to the main menu.

## Running the script

I rand 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, Assigment05\_Revised.py. I followed the user prompts to enter an item and an estimated value. The script ran as expected (figure 1-3)

Text

Description automatically generated

Figure 1 Screenshot showing commands to locate proper folder and run Assigment05\_Revised.py in PyCharm

Text

Description automatically generated

Figure 2: Screenshot showing commands to locate proper folder and run Assigment05\_Revised.py in windows command prompt

Graphical user interface, application

Description automatically generated

Figure 3 Screenshot of Assigment05\_Revised.txt directory location and contents

# Summary

Using what I learned in Module 05, I was able to successfully revise the Assigment05\_Starter.py program. The program demonstrates my basic knowledge of error handling, working with dictionaries and lists, reading and writing from a text document.