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Foundations of Programming, Python  
Assignment 6

# Intro to Programming - Python

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## Introduction Functions, Classes and Git Hub

In this assignment I will explain the steps I used to create the script to add tasks and set a priority to a To Do list. In addition, this script also uses functions to pass values to and from different functions to add, remove, list and save these to a file.

## Variables

I wrote the script in the PyCharm environment on a Windows machine. I added a variable to the original list to verify that the end user wanted to quit. All other variables remained the same.

## Starting the Code

I actually took each step as I knew how to code that step. The removal was a little tricky as I tried to understand the concepts of sending the variables back and forth to the different functions. Took me several tries to get the concept and process to work.

## Script

Once I got the code to finally run correctly, I also added my file to GitHub here: <https://github.com/pme636/ITFnd100-Mod06>. In addition, I added the link to the section on UW Canvas so that others may review my code.

## Final Code:

The code finally ran as expected after many changes and there are NO errors on a WINDOWS machine. See all of the screen prints with no errors noted:

Selection 1: Lists out all the tasks currently in the file.

```
Processor > write_data_to_file()

Week6_PEverett_Final <
"/Users/patriciaeverett/Desktop/UW Class Python/Week 6/Test.py/venv/bin/python" "/Users/patriciaeverett/Desktop/UW Class Python/Week 6/Test.py/Week6_PEverett_Final.py"
***** The current tasks ToDo are: *****
Homework (1)
clean up desk (2)
Feed dogs (3)
make dog food (2)
dogs bath (5)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - |
```

Selection 2: Add a new Item:

```
Processor > write_data_to_file()

Week6_PEverett_Final <
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 1

Enter task to add to list: drop class
Enter priority of task: 1
***** The current tasks ToDo are: *****
Homework (1)
clean up desk (2)
Feed dogs (3)
make dog food (2)
dogs bath (5)
drop class (1)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program
```

Selection 3: Remove an existing item

```
Processor > write_data_to_file()

Week6_PEverett_Final x
dogs bath (5)
drop class (1)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 2

Which task would you like to remove: ? drop class
***** The current tasks ToDo are: *****
Homework (1)
clean up desk (2)
Feed dogs (3)
make dog food (2)
dogs bath (5)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program
```

#### Selection 4: Save data to file

```
Task, priority = 10.input_new_task_and_priority()
Processor > write_data_to_file()

Week6_PEverett_Final x
dogs bath (5)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 3

File has been saved
Data Saved!
***** The current tasks ToDo are: *****
Homework (1)
clean up desk (2)
Feed dogs (3)
make dog food (2)
dogs bath (5)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - |
```

#### Selection 5: Exit with added bonus of asking if the end user is sure

```
165 | task, priority = 10.input_new_task_and_priority()
Processor > write_data_to_file()

Run: Week6_PEverett_Final <
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 3

File has been saved
Data Saved!
***** The current tasks ToDo are: *****
Homework (1)
clean up desk (2)
Feed dogs (3)
make dog food (2)
dogs bath (5)
*****

Menu of Options
1) Add a new Task
2) Remove an existing Task
3) Save Data to File
4) Exit Program

Which option would you like to perform? [1 to 4] - 4

Goodbye!

Process finished with exit code 0
|
```

## Script Saved

The Pycharm file was saved in my folder on my Mac along with the ToDoList.txt file.  
I also added the file to GitHub at this link: <https://github.com/pme636/ITFnd100-Mod06>

## Summary

Using the provided information from this week's assignment I was able to create a script that provides a menu for the end user to choose what steps they want to take. They can add, remove or list out the tasks on the file.