

Kimberly Domingo
Date: 7/26/2023
Class: IT FDN 110A
Assignment 03

Introduction:

This week, I will go through the steps on how I finished Assignment 03 which is to create a program that asks a user to name a household item and its estimated value. The inputs will then need to be stored in a text file called, HomeInventory.txt. This program will again utilize the input() function which we used the past two weeks. It also used a new concept that was learned this week, which was storing data into a text file.

Writing the Code:

I split this up into different sections, like the lecture. I know that I need to get the inputs, which are the item name and its value.

```
#Get data from user
name_input = input("Enter item name: ")
cost_input = input("Enter cost of item: ")
```

Figure 1: Code using the input() function

I assigned the item name and the item value to two different variables (name_input and cost_input) and used the input() function to get data from the user. I have added a statement inside the input() function which will be printed out for users to see as a guide on what data I am looking for from them.

The next step I did is to figure out what the output would look like in the text file when I save it. I have the inputted data. On the text file, I want it to read as "Item name: —". To do this, I assigned variables to each inputted data as "item_name and item_cost.

```
item_name = "Item name: " + str(name_input) + "\n" # Create a new line
item_cost = "Cost of item: " + str(cost_input)
```

Figure 2: Outputs are assigned to item_name and item_cost

One thing to note for this is the "\n" at the end of the first assigned variable. This is added to make sure that both output will not be written in just one line but is separated into a new line.

Next is storing the data into a text file, in this case, HomeInventory.txt. We learned the code in order to accomplish this task this week.

```
#Store data into a text file
objfile = open("HomeInventory.txt", "w")
objfile.write(item_name)
objfile.write(item_cost)
objfile.close()
```

Figure 3: Code to store data into a text file

This could first open the text file that we want to open. Then, we are able to perform numerous functions with this. In this case, we want to use the .write() function to add in that data we collected from the user. One thing to remember is that because we use the .open() function, we need to have a .close() function after we finish doing what we want inside this file.

The last thing we need to do is to print something out to show the users what they stored in the text file.

```
print("You have saved this data:")
print(item_name, end='') #Add in to make sure to create a new line
print(item_cost)
```

Figure 4: Print() function to communicate with users

We use the print() function to show the users what they stored. We are printing out the exact same thing as we stored in the text file, so we need to make sure what they are seeing in the output matches exactly what is being stored in the text file.

Lastly, we need to run the code. There were no errors with the code and ran exactly how it was supposed to.

```
Enter item name: Couch
Enter cost of item: 2400
You have saved this data:
Item name: Couch
Cost of item: 2400
```

Figure 5: Output when code was ran

```
≡ HomeInventory.txt
1 Item name: Couch
2 Cost of item: 2400
```

Figure 6: Screenshot of the HomeInventory text file

We get the input prompt to enter the item name and the cost of the item which the users add in. Afterwards, we get the output that shows what data has been stored to the text file. Looking into text file, we see the same data that was stored as the data showed in the output.

One thing to note when I was writing this program was that I ended up getting errors in the beginning, because a tuple was inside my write() function. A string is the only thing allowed to be inside the function. If not, it would cause an error. How I found out about this error was when I double checked the data type of each of my variables before adding it into the write() function.

Summary:

This documentation went through the steps on how I accomplished Assignment03. This assignment asked to create a program that gets data from users on household items and its values. I have learned and used this concept the past two weeks. This assignment also added in a new concept which was after collecting the data from the users, it asked to store the collected data into a text file called HomeInventory.