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8/07/2022

Foundations of Programming: Python

Module 5

Here is my GitHub link for Assignment05

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

**Python Script Creation**

## **Intro**

This will show the steps I took to create a python script that creates a data file asks for user input and displays it.

## Step 1 – Process data into a file

In order to process data into a file I used the open() function with ‘a’, which appends to the file as we go. As seen in (Figure1.1)

Text

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Figure 1.1 Use open() function to create data file

## Step 2 – Get user input

Since we were learning about loops, I used a while() function with if() asking the user for input via the print() function. This allowed me to check the condition; if an exit is received, we would quit. If not, we would continue to gather inventory of household goods and their price estimates as seen in (Figure 1.2). We will show the output in the next section.

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Figure 1.2 Gathering user input

## Step 3 - Display Data to the user

With data in memory, we now create the inventory to append to the data file using the write() function as seen in (Figure 1.3)

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Figure 1.3 Display the data to the user

## Step 4 – Results as show by running the program

Let us confirm out input and output. (Figure 1.4)

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Figure 1.4 Input and Output

## Summary

In conclusion we were able to build a program using the open(), while(), if(), input(), write() and print() functions to create an inventory of items from the users household and the estimated value.

# TitleL Home Inventory Script  
# Dev: MSteinauer  
# Date: July 25, 2022  
# ChangeLog: (Who, When, What)  
# Msteinauer,7/25/2022,Created Script  
  
#Process the data into a file  
  
objFile = open('homeinventory.txt', 'a')  
  
#Get User Input Data  
  
while(True):  
 print("Type in the name and value of a house hold item (Enter 'Exit' to quit!): ")  
 strItem1 = input('Enter the item: ')  
 if (strItem1.lower() == 'exit'): break  
 strValue2 = input('Enter estimated value: ')  
 if (strValue2.lower() == 'exit'): break  
  
# Display a message to the User  
  
 strInventory = strItem1 + ' estimated value = ' + '$' + strValue2  
 print(strInventory)  
 objFile.write(strInventory +"\n")  
 print("Data Saved to File!")  
  
objFile.close()