August 7, 2023

Foundations of Programming: Python

Assignment 05

GitHub

Lists and Dictionaries

Introduction

For our fifth assignment we had to create a script to be able to run in Python. This script would display a five-item menu with options to display the data we obtained from our txt file, add, or remove a task and priority, save to txt file, and close the application.

Structured error handling, GitHub

Creating the script

For this script a framework was provided to us. We used similar code as last time to get user input, but this time we displayed a menu of five options that let the user select to add and remove a task and its priority, display current added value, and finally have the option to exit the application and save or not save the collected data into a txt file.
We used a while loop to be able to ask a user in a continuing mode if more data needed to be added to the file. All the collected data was added into a dictionary and then appended to a list. Each collected list represented a row in the table.
Finally, the fifth option was to either save the data or not and exit the application.

```
# Step 5 - Remove a new item from the list/Table
elif strChoice.strip() == '3':
    strTask = input("Task to remove: ")
    for row in lstTable:
        if row["Task"].lower() == strTask.lower():
            lstTable.remove(row)
            print("row removed")
            break
    continue
```

Developed code to remove an item.

Python script run successfully on the terminal.

Summary

The challenge I encountered while developing this code was indentation when having an If statement within an Elif statement. I struggled with an elif statement when wanting to display a “row not found” so I decided to leave this out of the code. If there is not match in the dictionary it simply moves forward with the message. I only wanted to display the message once but if I add it on the elif statement it will print it out as many times as the for loop iterates.