CSCI 513.01W – Python Programming for AI
Assignment 2

In this assignment we are going to practice working with strings, if statements, loops, and files. Our program starts by displaying (printing) the following menu, and waits for the user's choice:

Welcome to the Bookmark Manager:

(1) Add a bookmark
(2) Statistics
(3) View bookmarks
(4) Exit Program

When the user chooses option (1), the program asks the user to enter three information: the webpage link, bookmark title, category (a choice between *Wishlist*, *Work*, *Playlist*, *Miscellaneous*). When the user presses enter, the program saves the bookmark in a text file according to the category chosen This means if the user chose to add a *playlist* link then the program will save the bookmark in a file called playlist.txt. Make sure to open the file as append mode instead of write mode to prevent from overwriting over saved bookmarks.

Clicking on option (2) will display the numbers of bookmarks entered for each category during the time the program is running. This means if you add a bookmark, exit the program, then add a bookmark of the same category then the count will be 1. Clicking on option (3) will ask the user which category to pick from, and displays the contents of the category file. Do not worry if you get an error if you chose a category with not bookmarks added (no file created). Finally, choosing option (4) will quit the loop and the program.

Here is a running example of the program (user input is formatted with blue color):

```
Welcome to the Bookmark Manager:
(1)    Add a bookmark
(2)    Statistics
(3)    View bookmarks
(4)    Exit Program
1

Enter the bookmark's link: https://www.tamuc.edu/
Enter the bookmark's title: tamuc
Enter category, 1 for Wishlist, 2 for Work, 3 for Playlist, 4 for
Miscellaneous: 2

Welcome to the Bookmark Manager:
(1)    Add a bookmark
(2)    Statistics
(3)    View bookmarks
(4)    Exit Program
2

We have:
```

```
0 wishlist
1 work
0 playlist
0 Miscellaneous

Welcome to the Bookmark Manager:
(1)    Add a bookmark
(2)    Statistics
(3)    View bookmarks
(4)    Exit Program
3
Enter category, 1 for Wishlist, 2 for Work, 3 for Playlist, 4 for
Miscellaneous: 2
tamuc https://www.tamuc.edu/

Welcome to the Bookmark Manager:
(1)    Add a bookmark
(2)    Statistics
(3)    View bookmarks
(4)    Exit Program
1

Enter the bookmark's link: https://www.tamuc.edu/computer-science-and-
information-systems/
Enter the bookmark's title: CS
Enter category, 1 for Wishlist, 2 for Work, 3 for Playlist, 4 for
Miscellaneous: 2

Welcome to the Bookmark Manager:
(1)    Add a bookmark
(2)    Statistics
(3)    View bookmarks
(4)    Exit Program
2

We have:
0 wishlist
2 work
0 playlist
0 Miscellaneous

Welcome to the Bookmark Manager:
(1)    Add a bookmark
(2)    Statistics
(3)    View bookmarks
(4)    Exit Program
3

Enter category, 1 for Wishlist, 2 for Work, 3 for Playlist, 4 for
Miscellaneous: 2
tamuc https://www.tamuc.edu/
CS     https://www.tamuc.edu/computer-science-and-information-systems/

Welcome to the Bookmark Manager:
(1)    Add a bookmark
(2)    Statistics
(3)    View bookmarks
```

```
(4)     Exit Program
4
```

WHAT TO HAND IN:

Submit your project electronically through D2L by attaching and submitting your Python program file (assignment2.py).