Reid5.py Algorithm:

I. Folder class initialization
   A. Set up active instance
   B. Set up main tree dictionary
II. Print menu options
III. Run selection based on menu choice
   A. Add File
      1. Asks user for a filename
         a) Does filename exist under active folder
            - If name does not exist, save file under active folder instance
            - If name exists, print error
   B. Add Folder
      1. Asks user for the name of a folder to create
      2. Checks if folder exists in the main dictionary
         a) If name does not exist, creates folder under active instance
         b) If name does exist, print error
   C. Select Folder
      1. Asks user what folder they would like to make active
      2. Checks if folder exists in the main dictionary
         a) If folder exists, check if user is already in that folder
            - If user is in folder, print an error
            - If user is not in folder, make new folder active
         b) If folder doesn't exist, print an error
   D. Print Folder
      1. Recursively goes through the active folder, subfolders and files
      2. Calls the private __count_files method, using the __len__ method to get a total count of files in the active and subfolders
      3. Uses the __str__ method to format and display the directory tree, printing a count of files, then showing the files, and subfolders with appropriate indentation.

E. Exit

1. Exits the program