Exercise 3

This exercise focuses on utilizing different types of user interfaces to perform a file renaming task.

The interfaces demonstrated in this activity include:

1. Command Line Interface (CLI)
2. Graphical User Interface (GUI)
3. Voice User Interface (VUI)

Command Line Interface (CLI):

This method uses the command prompt, where the user executes a specific command to rename a file.
After saving the Python script (rename_file_cli.py) in the IDLE shell, the following command is run:

python rename_file_cli.py oldfilename.txt newfilename.txt

This command reads the file named *"oldfilename.txt"* and renames it to *"newfilename.txt"* upon execution.

Graphical User Interface (GUI):

In this approach, running the Python code via the IDLE shell opens a separate GUI window.
The user is prompted to enter the current file name and the new desired file name.
Upon submission, the file is renamed, and the changes are immediately visible in the file explorer.

Voice User Interface (VUI):

This method captures voice input from the user. The spoken command is interpreted, and the system renames the file from its current name to the specified new name.

However, there are limitations — for instance, special characters like "." may be interpreted as the word "dot," or the system may misread certain filenames.

These issues can be improved with more advanced training and fine-tuning of the voice recognition system.