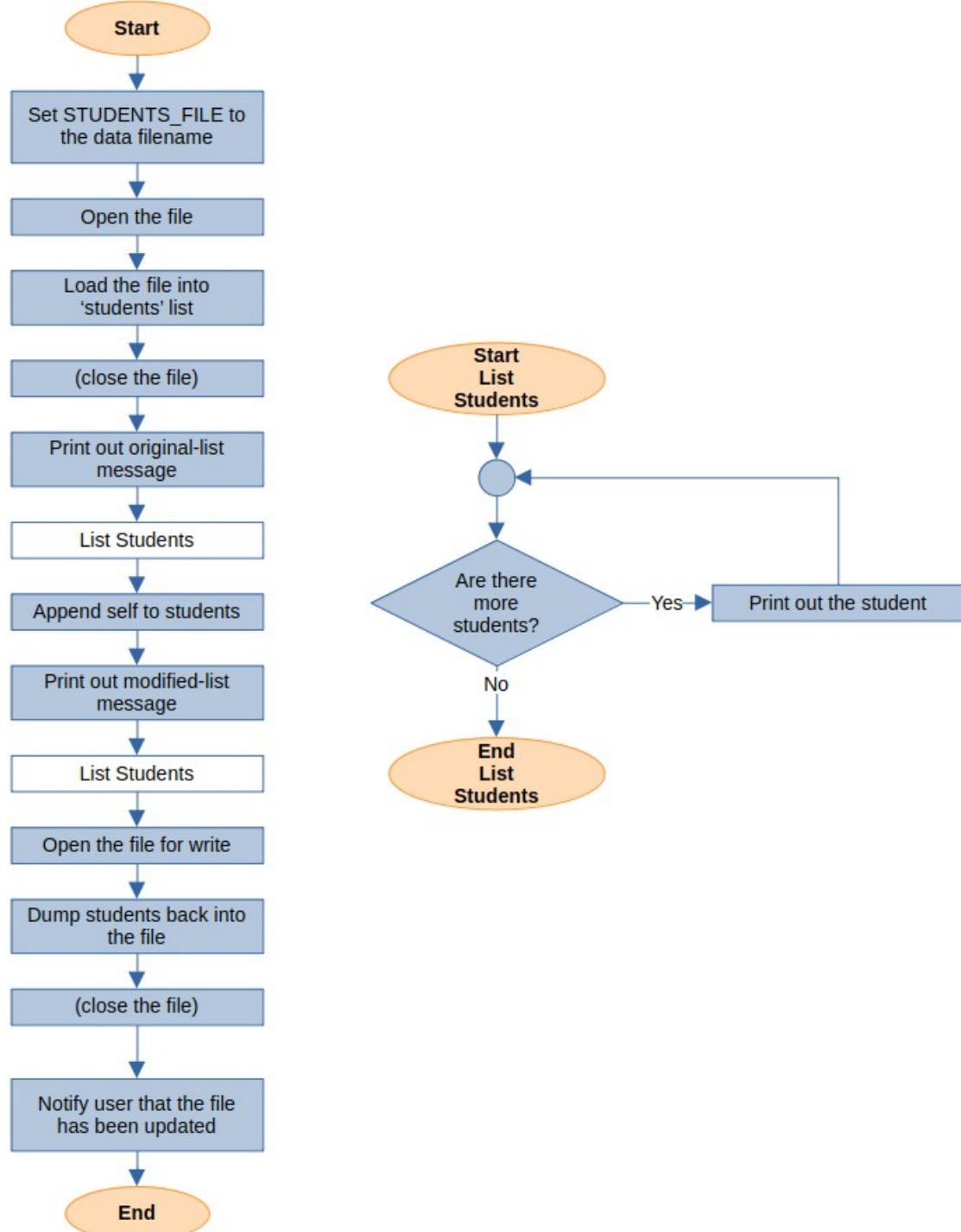


CSD 325: Advanced Python
Module 8.2 Assignment: JSON Practice
Isaac Ellingson
11/20/2025

Program Flowchart

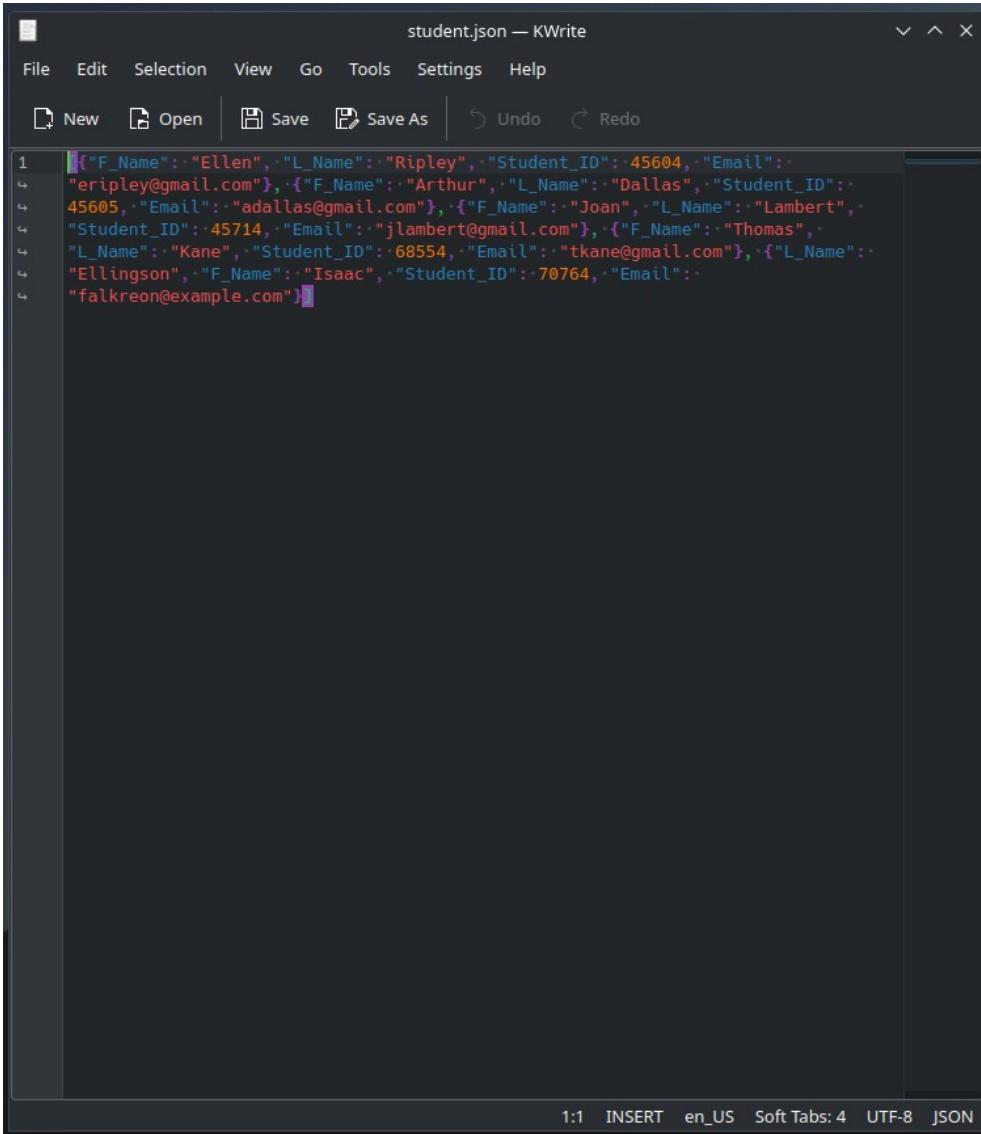


Running the file:

```
(venv) [falkreon@localhost] ~/Documents/Class/AdvancedPython/CSD-325/module-8 & python3 edit_students.py
This is the original student list:
Ripley, Ellen      : ID = 45604 , Email = eripley@gmail.com
Dallas, Arthur     : ID = 45605 , Email = adallas@gmail.com
Lambert, Joan      : ID = 45714 , Email = jlambert@gmail.com
Kane, Thomas       : ID = 68554 , Email = tkane@gmail.com

This is the updated student list:
Ripley, Ellen      : ID = 45604 , Email = eripley@gmail.com
Dallas, Arthur     : ID = 45605 , Email = adallas@gmail.com
Lambert, Joan      : ID = 45714 , Email = jlambert@gmail.com
Kane, Thomas       : ID = 68554 , Email = tkane@gmail.com
Ellingson, Isaac    : ID = 70764 , Email = falkreon@example.com
The json file was updated.
```

KWrite just “watched” the file and updated its unedited contents without prompting, so here’s a screenshot of the updated file.

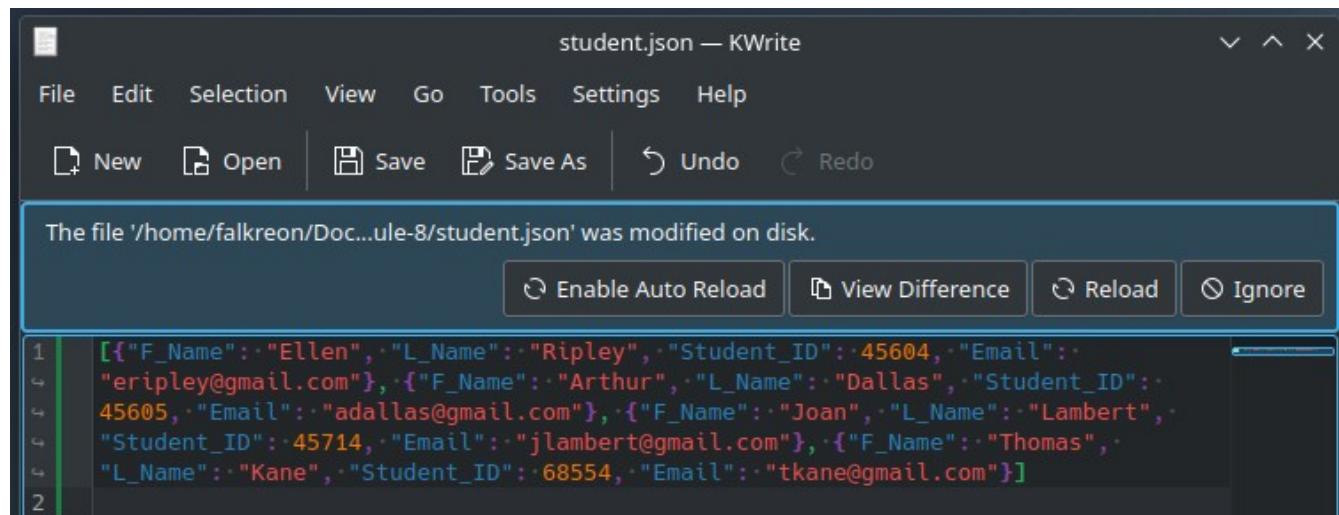


The screenshot shows a dark-themed KWrite window titled "student.json — KWrite". The menu bar includes File, Edit, Selection, View, Go, Tools, Settings, and Help. Below the menu is a toolbar with New, Open, Save, Save As, Undo, and Redo buttons. The main text area contains the following JSON code:

```
1 [{"F_Name": "Ellen", "L_Name": "Ripley", "Student_ID": 45604, "Email": "eripley@gmail.com"}, {"F_Name": "Arthur", "L_Name": "Dallas", "Student_ID": 45605, "Email": "adallas@gmail.com"}, {"F_Name": "Joan", "L_Name": "Lambert", "Student_ID": 45714, "Email": "jlambert@gmail.com"}, {"F_Name": "Thomas", "L_Name": "Kane", "Student_ID": 68554, "Email": "tkane@gmail.com"}, {"F_Name": "Isaac", "L_Name": "Ellingson", "Student_ID": 70764, "Email": "falkreon@example.com"}]
```

The status bar at the bottom indicates the file is 1:1, in INSERT mode, using en_US encoding, with Soft Tabs: 4, and is in UTF-8 and JSON format.

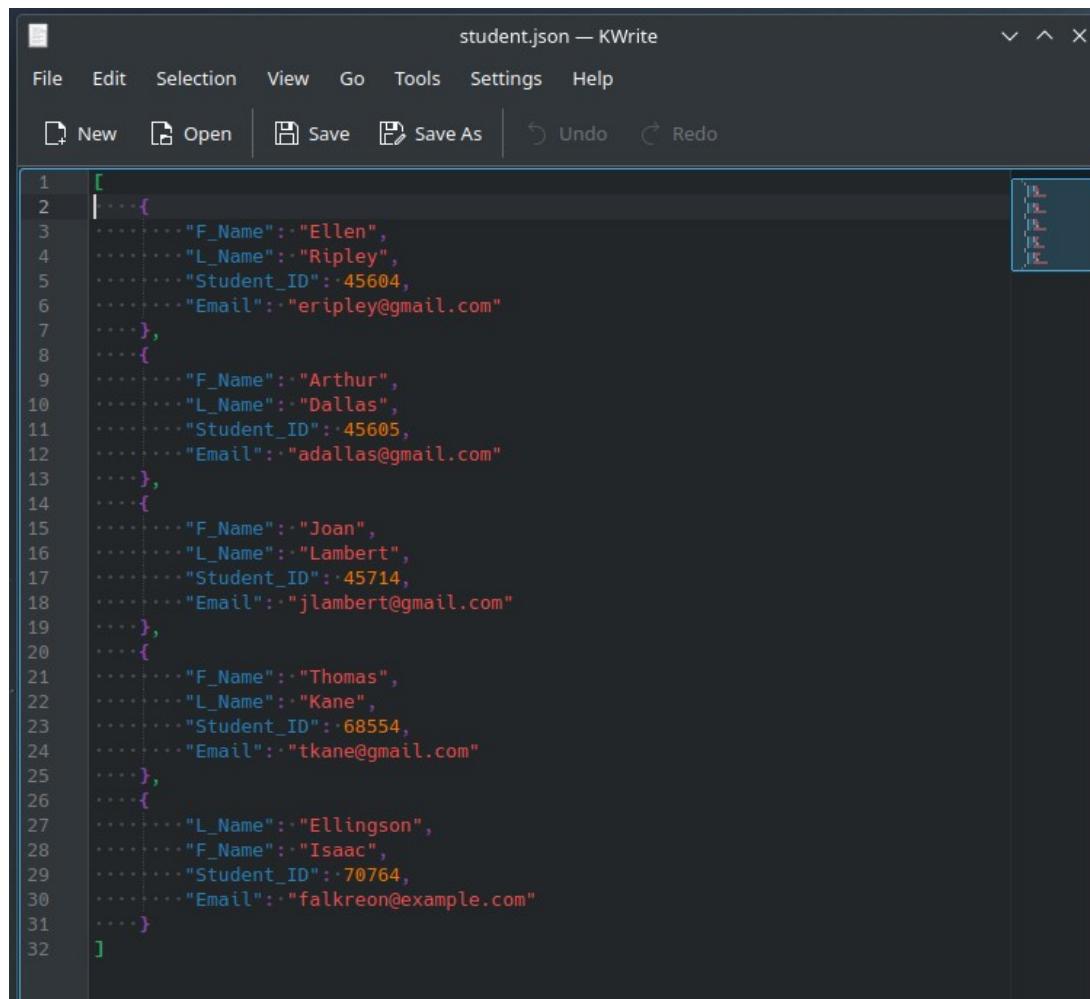
Clearly it needed indents, and after updating with indents we did get a more metered response since I edited it (to delete my entry) before re-running the program:



The screenshot shows a terminal window titled "student.json — KWrite". The menu bar includes File, Edit, Selection, View, Go, Tools, Settings, and Help. Below the menu is a toolbar with New, Open, Save, Save As, Undo, and Redo. A message at the top says "The file '/home/falkreon/Doc...ule-8/student.json' was modified on disk." Below the toolbar are buttons for Enable Auto Reload, View Difference, Reload, and Ignore. The code editor displays the following JSON data:

```
[{"F_Name": "Ellen", "L_Name": "Ripley", "Student_ID": 45604, "Email": "eripley@gmail.com"}, {"F_Name": "Arthur", "L_Name": "Dallas", "Student_ID": 45605, "Email": "adallas@gmail.com"}, {"F_Name": "Joan", "L_Name": "Lambert", "Student_ID": 45714, "Email": "jlambert@gmail.com"}, {"F_Name": "Thomas", "L_Name": "Kane", "Student_ID": 68554, "Email": "tkane@gmail.com"}]
```

And after hitting Reload:



The screenshot shows a terminal window titled "student.json — KWrite". The menu bar and toolbar are identical to the previous screenshot. The code editor displays the same JSON data, but with added indentation:

```
[{"F_Name": "Ellen", "L_Name": "Ripley", "Student_ID": 45604, "Email": "eripley@gmail.com"}, {"F_Name": "Arthur", "L_Name": "Dallas", "Student_ID": 45605, "Email": "adallas@gmail.com"}, {"F_Name": "Joan", "L_Name": "Lambert", "Student_ID": 45714, "Email": "jlambert@gmail.com"}, {"F_Name": "Thomas", "L_Name": "Kane", "Student_ID": 68554, "Email": "tkane@gmail.com"}, {"F_Name": "Ellingson", "L_Name": "Isaac", "Student_ID": 70764, "Email": "falkreon@example.com"}]
```

It's clear to me that there's no "appending" going on; it's rewriting the complete file.