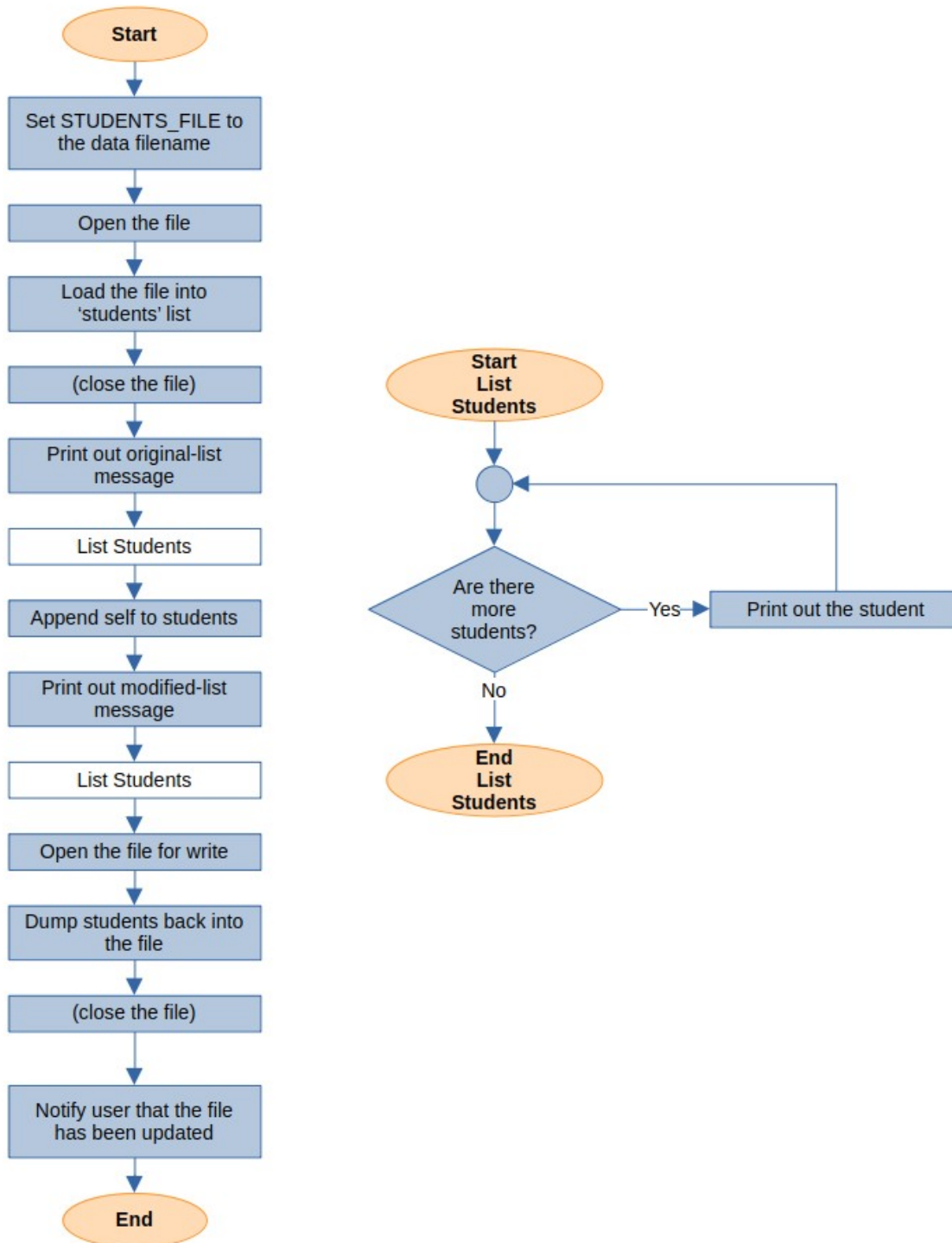


CSD 325: Advanced Python
Module 8.2 Assignment: JSON Practice
Isaac Ellingson
11/20/2025

Program Flowchart

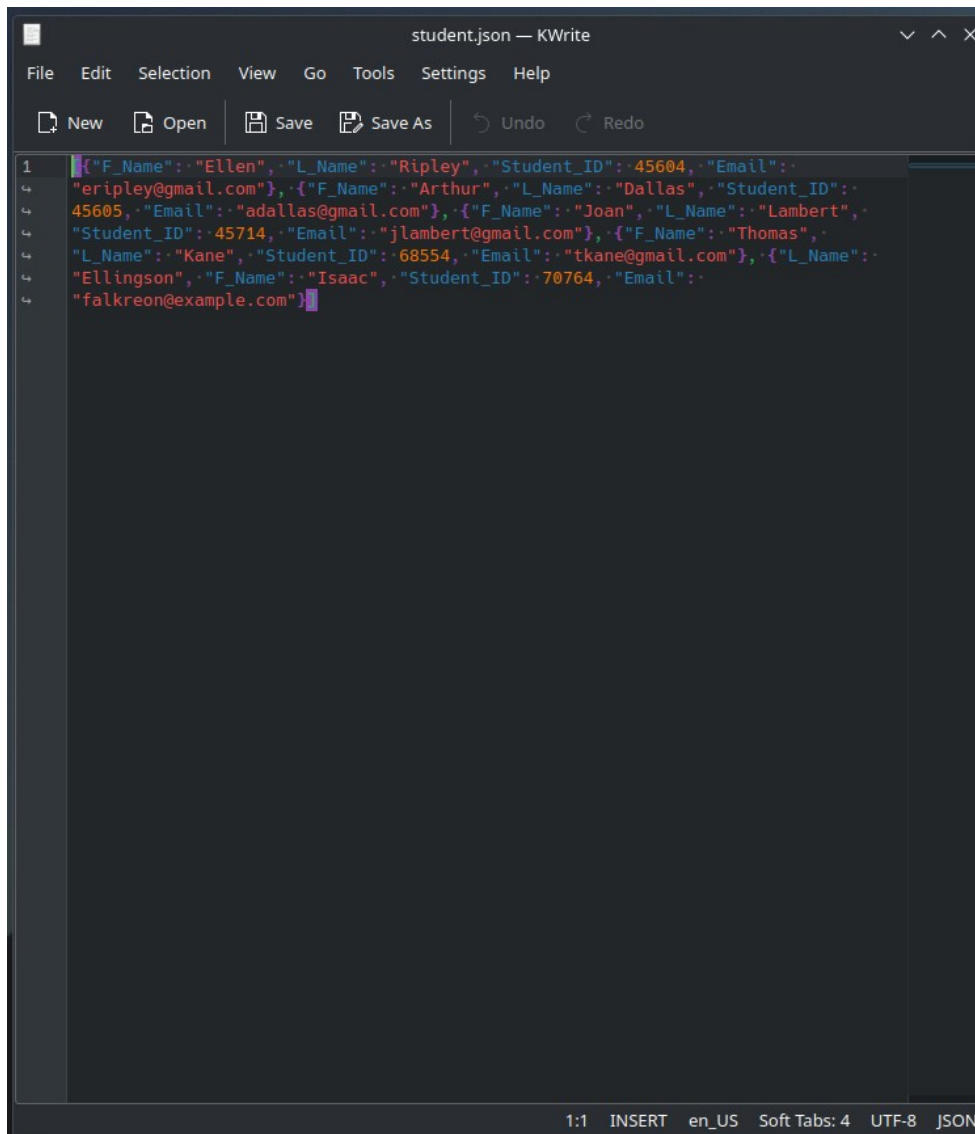


Running the file:

```
(venv) [falkreon@lrce] ~/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.

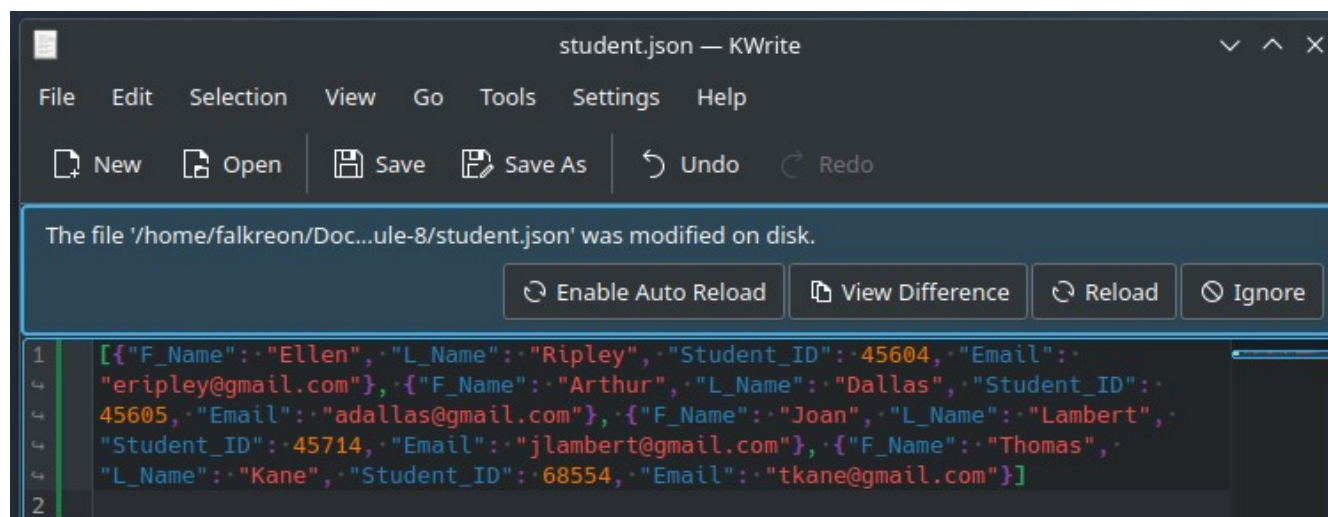


The screenshot shows the KWrite text editor window titled "student.json — KWrite". The menu bar includes File, Edit, Selection, View, Go, Tools, Settings, and Help. The toolbar contains icons for New, Open, Save, Save As, Undo, and Redo. The main text area displays the following JSON content:

```
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 "1:1 INSERT en_US Soft Tabs: 4 UTF-8 JSON".

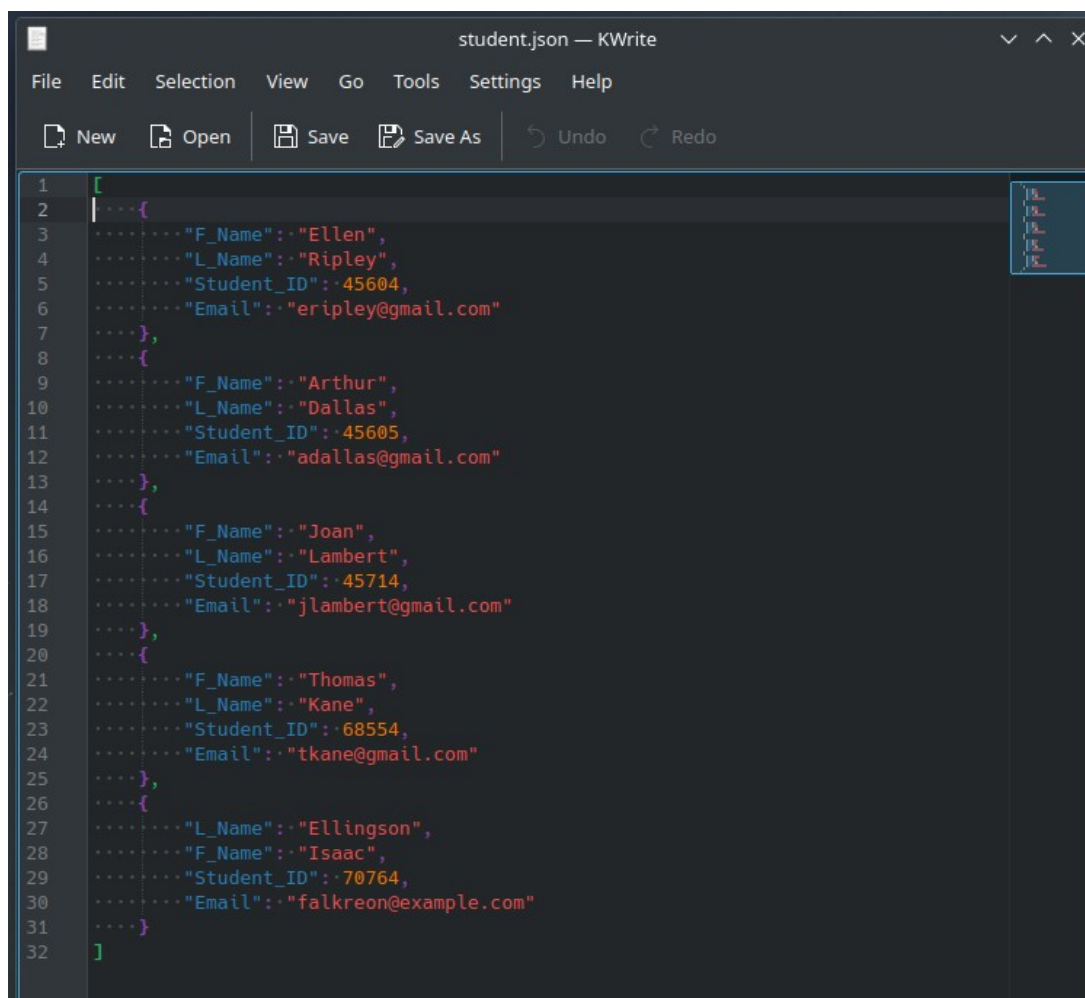
Clearly it needed indents, and after updating with indents we did get a more metered response since I edited it (to delete my entry) before re-running the program:



The screenshot shows the KWrite editor window titled "student.json — KWrite". The menu bar includes File, Edit, Selection, View, Go, Tools, Settings, and Help. The toolbar contains icons for New, Open, Save, Save As, Undo, and Redo. A blue message bar at the top of the editor area states: "The file '/home/falkreon/Doc...ule-8/student.json' was modified on disk." Below the message bar are four buttons: "Enable Auto Reload", "View Difference", "Reload", and "Ignore". The main text area shows a JSON array of student objects with the following content:

```
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"}]
```

And after hitting Reload:



The screenshot shows the KWrite editor window titled "student.json — KWrite" after a reload. The message bar is no longer present. The JSON content is now formatted with indentation and line wrapping. The content is as follows:

```
1 [
2   {
3     "F_Name": "Ellen",
4     "L_Name": "Ripley",
5     "Student_ID": 45604,
6     "Email": "eripley@gmail.com"
7   },
8   {
9     "F_Name": "Arthur",
10    "L_Name": "Dallas",
11    "Student_ID": 45605,
12    "Email": "adallas@gmail.com"
13  },
14  {
15    "F_Name": "Joan",
16    "L_Name": "Lambert",
17    "Student_ID": 45714,
18    "Email": "jlambert@gmail.com"
19  },
20  {
21    "F_Name": "Thomas",
22    "L_Name": "Kane",
23    "Student_ID": 68554,
24    "Email": "tkane@gmail.com"
25  },
26  {
27    "L_Name": "Ellingson",
28    "F_Name": "Isaac",
29    "Student_ID": 70764,
30    "Email": "falkreon@example.com"
31  }
32 ]
```

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