

## 1. Explanation of rules tested.

- Attendance Rule
- Grading Rule
- Login System Rule
- Bonus Points Rule
- Lunch Pass Rule

## 2. Screenshots of program runs.

The screenshot shows a Jupyter Notebook interface with several tabs open. The main code cell contains Python code for a logic rule system, including a CSV writer and a menu system. The output cell displays the results of running the program, showing a log of student interactions and rule violations. A separate cell shows the contents of the generated CSV file.

```
int name --> "main"
with open("logic_results.csv", "w", newline="") as file:
    writer = csv.writer(file)
    if file.tell() == 0: # Only write the header if file is empty
        writer.writerow(["Timestamp", "Student Name", "Rule", "Result"])
main()

--- University Logic Rule System ---
Enter Student Name:kyle reiner
-----
Main Menu
-----
1) Attendance Rule Checker
2) Grading Rule Checker
3) Login System Rule Checker
4) Bonus Points Checker
5) Lunch Pass Checker
6) Exit
Choose an Option: 1
-----
Attendance Rule Checker
Is the student late? (T/F): T
Did you bring an excuse letter (Y/N): Y
Result: Satisfied
-----
Main Menu
-----
1) Attendance Rule Checker
2) Grading Rule Checker
3) Login System Rule Checker
4) Bonus Points Checker
5) Lunch Pass Checker
6) Exit
Choose an Option: 6
Exiting... Results saved to logic_results.csv
```

Timestamp	Student Name	Rule	Result
2025-05-11 11:55:47	Leos Klein	Attendance Rule	Violated
2025-05-11 11:56:04	Leos Klein	Grading Rule	Satisfied
2025-05-11 11:56:08	Leos Klein	Login Rule	Access Granted
2025-05-11 11:56:11	Leos Klein	Bonus Rule	Satisfied
2025-05-11 11:56:18	Leos Klein	Lunch Rule	Denied
2025-05-11 13:06:52	Joshua O'Brien	Login Rule	Access Granted
2025-05-13 12:12	Kyle Reiner	Attendance Rule	Satisfied

## 3. Description of the new rule you added.

The Lunch Pass Rule was thought of when I remembered my junior high school time. The rule checks if the student has a valid ID and if it returns True, the program then asks if the student has a Lunch Pass that allows them to leave the school grounds during lunch time. If it returns True, the program then logs the response to the student's request to exit school grounds.