

1. Explanation of rules tested.

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

2. Screenshots of program runs.

```
if __name__ == '__main__':  
    # Create CSV with headers if not exist  
    with open('logic_results.csv', 'a', 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()  
  
def main():  
    print("==== 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? (Y/N): Y  
    Did you bring an excuse letter (Y/N): Y  
    P = Y (Late), 0 = N (Excuse letter)  
    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 |
|---------------------|----------------|-----------------|----------------|
| 2025-09-05 11:50:47 | Leos Klein | Attendance Rule | Valid |
| 2025-09-05 11:56:04 | Leos Klein | Grading Rule | Satisfied |
| 2025-09-05 11:56:08 | Leos Klein | Login Rule | Access Granted |
| 2025-09-05 11:56:11 | Leos Klein | Bonus Rule | Satisfied |
| 2025-09-05 11:56:18 | Leos Klein | Lunch Rule | Denied |
| 2025-09-05 12:06:52 | Joshua O'Brien | Login Rule | Access Granted |
| 2025-09-05 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.