

Simplified Report: University Logic Rules System

This Python program is a simple expert system that checks university rules using basic logic. It applies the rule "if P then Q" to different scenarios and records the results in a CSV file.

Main Functions:

- Attendance Rule – Checks if a late student has an excuse letter.
- Grading Rule – Determines if the student passes with grade ≥ 75 .
- Login Rule – Grants access if the password is correct.
- Bonus Points Rule – Gives bonus if the student has regular attendance.
- Laboratory Access Rule – Grants lab access only if safety gear is worn.

Key Features:

- Interactive menu for easy selection of rules.
- Automatic logging with timestamp, student name, rule, and result.
- Uses logical implication ($\text{impl}(P, Q)$) for decision-making.

Purpose:

This system helps track student compliance with basic school rules and provides a simple way to demonstrate logical reasoning in action.