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Concepts of Programming Languages, Spring Term 2025
Project 1: Class Scheduling Using Prolog Public Tests
Due: 11th April 2025

You are provided with 3 files for the public tests:

- **publicKB.pl** which is a new larger knowledge base on which the public tests and their results are based.

- **public_test_cases.xlsx** an excel sheet in which you will find test queries and their expected answers.

- **public_tests.pl** which includes only the true/false queries and is there to help you run the test cases faster instead of running them one by one through the prolog terminal. You can use this file by following these 3 steps:

  1) Change the first line of the file to include your project file name.
  2) consult **public_tests.pl** in Prolog.
  3) write `run_tests(public1).` in Prolog.

Testing Notes

- Grading is based entirely on the test results. (public tests, private tests and the examples in the description).

- The public test cases posted might not cover all scenarios so you should further ensure your code covers all cases as they might be included in the private tests. You are encouraged to write your own test queries.

- There are 3 types of test queries: queries evaluating to true, queries evaluating to false, and queries resulting in variable bindings.

- For some of the tests there are more possible outputs, only one of those outputs is shown for readability.

- Generating repeated outputs is not a problem, as long as the output is correct.

- Your code has to output true for any valid schedule regardless of the order of the slots in the list.

- The order in which solutions is generated does not matter (which answer comes first).