

CENG212 Concepts of Programming Languages (Spring 2021 – 2022)

Homework 2

21.05.2022

Due Date: 02.06.2022, 23:59

Q1 (80 points). Write a Knowledge Base (KB) in Prolog about [Department of Computer Engineering of Izmir Institute of Technology](#). There must be facts and rules about faculty members, research assistants, courses, and alike. You can also enrich the KB with additional information. There must be at least 5 different predicates, at least 5 rules, and sufficient number of facts. There must be at least 1 rule with 2 or more compound terms or atoms in the body.

Q2 (20 points). Write five queries for the generated KB in Q1.

Submission Rules

- Submit your homework as a compressed file including two Prolog files through Teams until due date.
- The compressed file name should be **CENG212_HW2_<student_number>** (Omit the angle brackets). A Prolog file name should be **<student_number>_QX** (e.g., 123456_Q1).

You can find some examples as follows:

- Damla Oguz is an assistant professor.
- Huseyin Unlu is a research assistant
- Assistant professors are faculty members.
- Faculty members can teach courses.
- Damla Oguz teaches CENG212.
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