

# 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.
- .....