SWISH

This assignment is **individual**.
Deadline: The deadline is **October 29, 2021, 16:59** and it is strict.
Submission: Please, submit your solution in Canvas as a single text file.

1 SWISH

In this exercise we are going to solve a puzzle using Prolog. For that, you are going to use an on-line editor called SWISH [1]. The website also provides users with examples and tutorials; check, for instance, the Einstein's Riddle example.

For this exercise, let's suppose we have a group of 4 students (s1, s2, s3 and s4). Each student belongs to a different chapter (data, physics, machine and electro); also, each studies in an specific building (e or u). Each of them takes a different transport to KTH (tbana, bike, bus and walk), and lives in a different neighborhood in Stockholm (ostermalm, norrmalm, kungsholmen and sodermalm).

Furthermore, we know that two students are friends if they study in the same building.

- F1 s4 studies at u building.

- F2 s2 takes the bike to school.

- F3 s3 belongs to the electro chapter.

- F4 The student that walks to university lives in ostermalm.

- F5 s1 and s3 are friends.

- F6 Exactly two students study in each building.

- F7 Whoever studies in data takes the bus from kungsholmen.

- F8 Only students from physics and machine are allowed on the u building.

- F9 All electro chapter students live in the same student housing in ostermalm.

- F10 The friend of the student that takes the bike lives in norrmalm.

Download the file **SWISH.txt** from Canvas and paste its contents in the on-line editor [1]. The skeleton of the problem is ready. Your task is to fill in the missing facts.

How to submit: Under the assignment SWISH, upload SWISH.txt. Make sure that your submitted file does not contain syntax errors.

REFERENCES

[1] An online Prolog editor and solver, https://swish.swi-prolog.org/