Hw04 - Report

Part 1:

```
% room(id, capacity, hours[], occupancy[], equipment, Handicapped access)
room(z23, 25, [8, 9, 10, 11, 12, 13, 14, 15, 16], [occupancy([10,11], cse341), occupancy([15,16], cse102)], smartboard, access).
room(z06, 130, [8, 9, 10, 11, 12, 13, 14, 15, 16], [occupancy([8,9], cse241), occupancy([12,13], cse332)], projector, notAccess).
room(z10, 78, [8, 9, 10, 11, 12, 13, 14, 15, 16], [occupancy([12,13], cse234)], __, notAccess).
room(z12, 54, [8, 9, 10, 11, 12, 13, 14, 15, 16], [occupancy([13,14], cse343)], __, notAccess).
room(amfi, 300, [8, 9, 10, 11, 12, 13, 14, 15, 16], [], projector, access).

% course(id, instructor, capacity, hours[], room, equipment[], Handicapped access)
course(cse241, ysa, 180, [8, 9], z06, projector, access).
course(cse241, genc, 120, [10, 11], z23, smartboard, access).
course(cse231, habil, 70, [12, 13], z10, projector, notAccess).
course(cse232, ysa, 180, [12, 13], z06, projector, access).
course(cse323, ysa, 180, [12, 13], z06, projector, access).
course(cse102, genc, 100, [15, 16], z23, smartboard, notAccess).

% instructor(id, courses[], preference)
instructor(ysa, [cse241, cse332], projector).
instructor(genc, [cse102, cse341], projector).
instructor(habil, [cse231, cse332], access)
student(1, [cse341, cse231], notAccess).
student(2, [cse102, cse341], notAccess).
student(3, [cse241, cse231], notAccess).
student(4, [cse332, cse341], notAccess).
student(4, [cse332, cse341], notAccess).
```

```
?- addCourse(cse501, ysa, 100, [15, 16], amfi, smartboard, access).
Course added succesfully
true.
?- addCourse(cse101, gokturk, 100, [15, 16], amfi, smartboard, access).
?- addStudent(5, [cse102, cse341], notAccess).
false.
?- addStudent(5, [cse102], notAccess).
Student added succesfully
true .
?- findClasses(amfi, Classes).
Classes = [cse241, cse343, cse332].
?- findClasses(z06, Classes).
Classes = [cse231].
?- findRooms(cse241, Rooms).
Rooms = [amfi].
?- findRooms(cse343, Rooms).
Rooms = [amfi].
```

```
?- findAssignments(2, Classes).
Classes = [cse241, cse341, cse343, cse332, cse501, cse101].
?- canEnroll(2, cse341).
true.
?- canEnroll(4, cse102).
true.
```

Part 2:

```
?- connection(canakkale, Y, C).
Y = erzincan,
C = 6;
Y = edirne,
C = 3;
Y = antalya,
C = 9;
Y = izmir,
C = 11;
Y = ankara,
C = 17;
Y = van,
C = 21;
Y = diyarbakir,
C = 25;
Y = gaziantep,
C = 24;
Y = tekirdag,
```

```
?- connection(canakkale, erzincan, C).
C = 6 .
?- connection(canakkale, ankara, C).
C = 17 .
?- connection(canakkale, istanbul, C).
false.
?- connection(canakkale, Y, 25).
Y = diyarbakir .
```