CSE 341 HOMEWORK 3 REPORT

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check_conflict:
- Checks if there is any scheduling conflict.

check_conflict(cse343,cse331).
true

check_conflict(cse341,cse321).
false

check_assign:

- Checks which room can be assigned to a given class.

- Check which room can be assigned to which classes.

check_assign(X, cse331).
$X = z06$
$X = z10$
$X = z23$

check_assign(X, cse321).
$X = z06$

| |
|---|
| check_assign(z23, Y). |
| $Y = cse331$ |

check_assign(z10, Y).
$Y = cse331$
$Y = cse341$

check_enroll:

- Checks whether a student can be enrolled to a given class.
- Check which classes a student can be assigned.

check_enroll(5,X).

X = cse321
X = cse341
X = cse343

check_enroll(6,X).

X = cse341

check_enroll(3,cse331).

false

check_enroll(10,cse341).

true

NOTES:

I added screenshots above for each task.

I added comments for the each function.

For Equipment: projector, smartboard and none are the possibilities. "none" is for if there is no special equipment.

For Handicapped: handicapped and none are the possibilities.

"none" is for if the student is not handicapped.

PART 2:

flight(istanbul,izmir,2).

true

route(istanbul,antalya,4).

true

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route(canakkale,X,C).

C = 6,
X = erzincan
C = 6,
X = erzincan
C = 12,
X = canakkale
C = 9,
X = antalya
C = 18,
X = erzincan
C = 12,
X = erzincan
C = 11,
X = izmir
C = 13,
X = diyarbakir

route(istanbul,X,C).

C = 2,
X = izmir
C = 4,
X = rize
C = 1,
X = ankara
C = 2,
X = izmir
C = 4,
X = rize
C = 1,
X = ankara
C = 4,
X = antalya
C = 4,
X = istanbul
C = 8,
X = ankara
C = 7,
X = erzincan
C = 6,
X = izmir
C = 8,
X = diyarbakir

For route(canakkale,X,C) and route(istanbul,X,C). :

There are more possibilities that I couldn't show on the screenshots. You can test my homework and view all of them.