CSE 341 Programming Languages

Fall 2019 – HW4

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I used the swipl compiler to compile Prolog files.

1) In part1, My predicates will find the all cities connected with the selected city. To avoid cycles, my predicate adds the path in a list.
2) In part2, My predicate does the same thing with part1 predicate but this time, it calculates the distance. The returning values are all paths with the selected 2 cities and their distances.
3) Schedule(S,P,T): Predicate will find the class places and the class time for the student S.
   Usage(P,T): Predicate will find the time of usage of a classroom.
   Conflict(X,Y): Predicate will find the conflict between two class.
   Meet(X,Y): Predicate will return true if two student will take the same class.

4) I assume the user will insert the sets as a list.
   Element(E,S): Predicate returns true if the element E is in the set S.
   Equivalent(S1,S2): Predicate will check if the sets are same or not.
   Union(S1,S2,S3): Predicate will check the set S3 is the union of S1 and S2 or not.
   Intersect(S1,S2,S3): Predicate will check the set S3 is the intersect of S1 and S2 or not.