Programming Assignment Report

Assignment 07

Resolution By Refutation

Solutions

1. The person who used the revolver was seen in the ballroom.
   1. FOL: E x, Used(x, Revolver) A InRoom(x, Ballroom)
2. Miss Scarlet was in the library.
   1. FOL: InRoom(MissScarlet, Library)
3. The crime did not happen in the same room where Professor Plum was.
   1. FOL: E r, InRoom(ProfPlum, r) -> ¬CrimeRoom(r)
4. The rope was found in the kitchen.
   1. FOL: WeaponInRoom(Rope, Kitchen)
5. Colonel Mustard did not use the knife.
   1. FOL: ¬Used(ColMustard, Knife)
6. The suspect was seen in the same room as the weapon they used.
   1. FOL: E x, r, w, (Suspect(x) A InRoom(x, r) A Used (x, w)) -> WeaponInRoom(w, r)
7. The crime happened in the room where the suspect was seen.
   1. FOL: E x, r, (Suspect(x) A InRoom(x, r)) -> CrimeRoom(r)