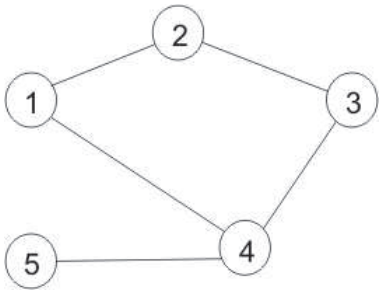
1. Exercise 2.1 (from the book).

   Say whether the following goals would succeed, and which variables, if any, would be instantiated to what values:

   ```
   pilots(A,london) = pilots(london,paris).
   point(X,Y,Z) = point(X1,Y1,Z1).
   letter(C) = word(letter).
   noun(alpha) = alpha.
   'vicar' = vicar.
   f(X,X) = f(a,b).
   f(X,a(b,c)) = f(Z,a(Z,c)).
   ```

2. A train network is a connected graph where nodes denote stations and edges are railway links. Two stations are safely connected iff there is a connection between A and B even if one of the other stations is not operational.

   As an example consider the following train network:


   ```
   station(1).
   station(2).
   station(3).
   station(4).
   station(5).
   route(1,2).
   route(2,3).
   route(1,4).
   route(4,3).
   route(4,5).
   ```

   Construct a logic program that can be used to determine pairs of safely connected train stations.

   Hint: Use an auxiliary predicate `circumvent(X,Y,Z)` that holds if you can circumvent `X` when traveling from `Y` to `Z`.