Assessed Exercise 3 : Graph

(weeks 10,11)

Starting with the lab exercises in week 10, create a **console application** to test the GraphNode and Graph class. Add (and test) graph methods to :

1. return the number of nodes in a graph
2. return the number of edges in a graph
3. return a list of visited id’s generated by a BreadthFirstSearch
4. amend your graph to store people’s names (string rather than id) and construct the social network (below) and test it using your BreadthFirstSearch method. Each connection shows a one-way friendship from one person to another.
5. Add a method to return true if its possible to traverse (friend of friends …) between 2 people in the network, false otherwise.

Ex3 will be graded from 0-100%. 50% 1,2 complete, 70%:1,2 & 3 complete, 70-80: 1,2,3,4. 80%+ : all parts complete, consideration of code quality including refactoring, validation etc.