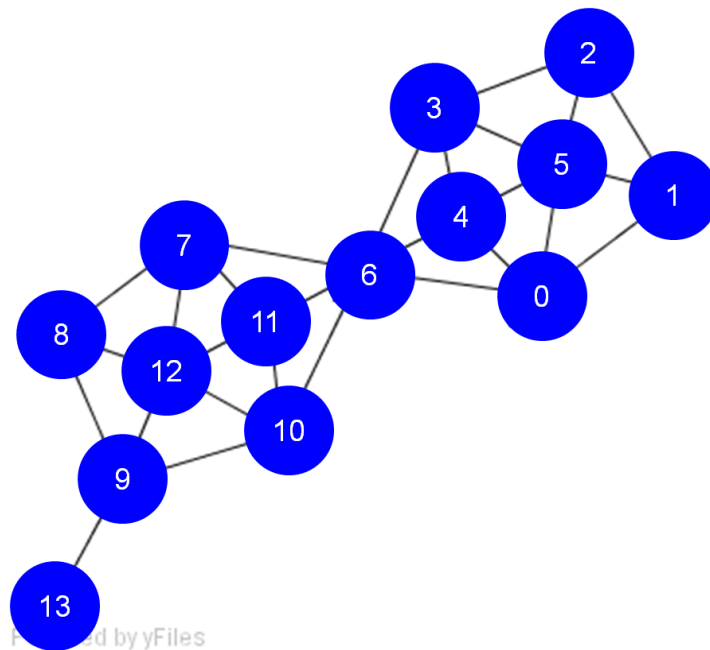# PESIT Department of Computer Science and Engineering

Course: Data Mining
Semester: 2016 Spring (January – May)
Instructor: BNR (Dr. B. Narsing Rao)

Assignment: 11
Topic: Graph Clustering
Due by: Midnight on Tuesday, April 12, 2016
Method: See below for details; email to bnrao@pes.edu

Write a program in the language of your choice that will implement the SCAN algorithm (as described in Figure 11.15 on page 532 of the textbook) to find clusters, hubs, and outliers for the following graph:

Use an epsilon of 0.7 and a popularity threshold of 2

Submit the following (using standard conventions):

1. Your program (Note that it must be well designed and modularized, and all inputs must be read from a file)
2. The output from your program showing the clustering produced by the algorithm
3. Answer to the question: What is the effect of varying epsilon and/or the popularity threshold?