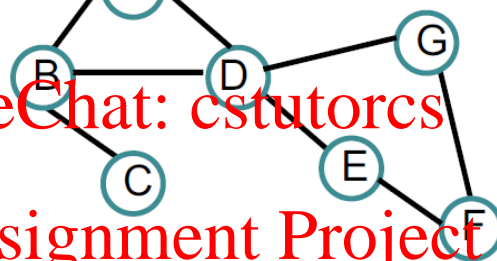




1. How the following graph gates information across the graph (only state the first 3 layers)?



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Assignment Project Exam Help

2. (a) What are the applications of Graph Convolutional Networks (GCNs)?
(b) What kind of dataset it may most suit regarding anomaly detection?
3. A database has five transactions. Let $\text{min_sup} = 60\%$ and $\text{min_conf} = 80\%$.
(a) Find all frequent *itemsets* using Apriori and FP-growth, respectively.
(b) Compare the efficiency of the two mining processes.

Email: tutormcs@163.com

QQ: 749389476

<https://tutorcs.com>

<i>TID</i>	<i>items_bought</i>
T100	{M, O, N, K, E, Y}
T200	{D, O, N, K, E, Y}
T300	{M, A, K, E}
T400	{M, U, C, K, Y}
T500	{C, O, O, K, I, E}

4. The price of each item in a store is nonnegative. The store manager is only interested in patterns of the form: "one free item may trigger \$200 total purchases in the same transaction". State how to mine such patterns efficiently.