Assignment 2

Note: Each problem statement carries 5 marks.

Problem Statement 1: A firm has a setup of manufacturing consumable items that are consumed by common people. The products are categorized among Cheap, Average and Costly. The firm has warehouses at different locations and keeping sufficient repository. The sales managers provide sufficient feedback to the stakeholders for production, storage and manufacturing needs. The forecasting is based on the sales of the items.

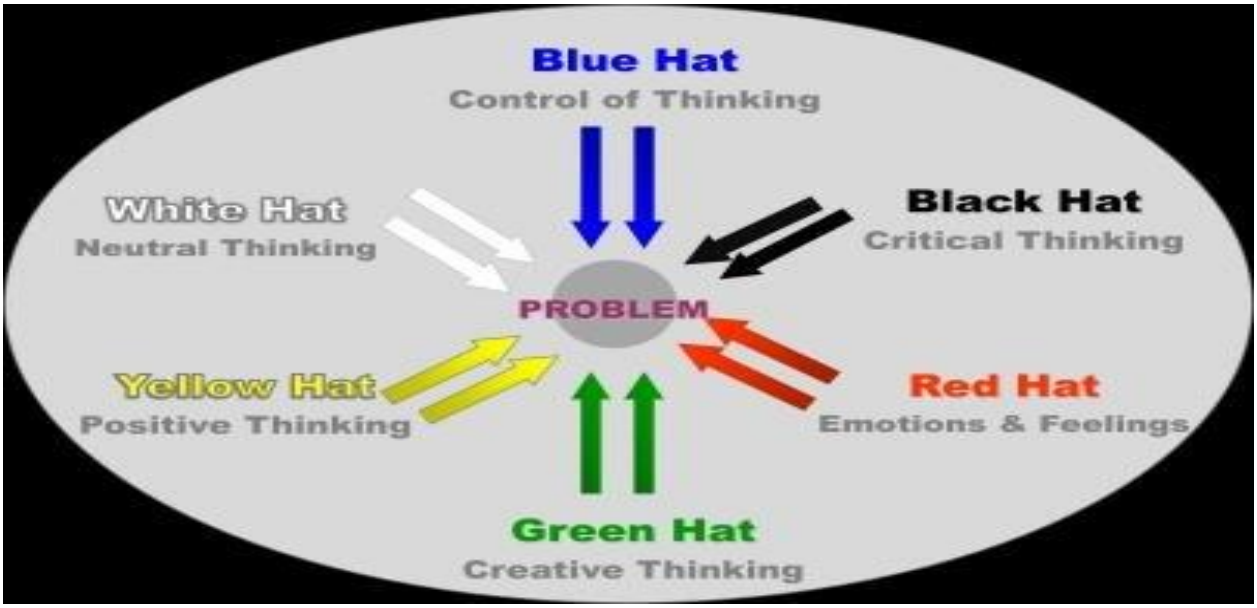
During the entire process firm is having problem related to available repository, efficient forecasting, production planning and to identify the products having good sales, average sales and low sales. At this point the firm decided to automate all aspect related to the manufacturing, production planning, storage and supply.

As a system analyst you have to identify the following for the firm:

1) The type of Hardware needed by the system.
2) The type of OS and software needed by the firm.
3) The networking need for the firm.
4) The database structure and tables required.
5) The security features required by the firm.

Problem statement 2: With the growing popularity of e-commerce supported by much technological and computing advancement, traditional business by small traders is diminishing every day.

Using the principal of six hats idea generation technique, provides a solution to maintain a healthy relationship between small traders and e-commerce, so that both flourishes with each other.



Student has to put himself in six different situations as pre-defined by six hats technique as shown below. The solution must be appropriate in terms of technology and social viewpoint.

Problem Statement 3. Explain atleast two variants of k-means algorithm in terms of implementation and formulation.