INVENTORY MANAGEMENT SYSTEM

UNDERSTANDING THE PROBLEM:

Why DSA essential for large inventories?

In an inventory system, we are going to deal with millions of products, its may be crucial to handle these huge data because

- Performance: we have to quickly add, delete, search several data.
- Scalable: The system had being grown, that time system has to stay responsive.
- Result thus by using DSA we can easily all these drawbacks .

Suitable DSA for Inventory management system:

• ArrayList, HashMap, TreeMap, LinkedList, Set and etc.

ANALYSIS:

TIME COMPLEXITY FOR EACH OPERATION USING (HASHMAP):

- To add an product O(1)
- To update an product O(1)
- To delete an product O(1)
- To display all product O(n)