Step 1-Understand the Problem

1. Explain why data structures and algorithms are essential in handling large inventories.

In a warehouse, there are thousands and thousands of products, and each product needs to added to the record, update its details and remove it when it leaves the warehouse. Among the thousands of items, it can be very tough to look for a particular item, and a suitable data structure can not only help us to find the product but also can do it in a very short amount of time.

1. Discuss the types of data structures suitable for this problem.

There are 2 types of data structures that we can use to solve this problem-

1. ArrayList- We can use it to store the products in an array.
2. HashMap- We can use it and store items via a key, say like product ID.