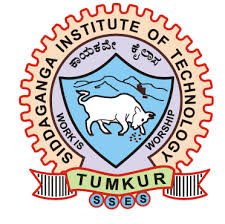
**SIDDAGANGA INSTITUTE OF TECHNOLOGY**

**Open Ended Problem for ADA Lab**

BICONNE



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**Problem Statement:**

A consumer is one who buys and uses various products. Children, adults, elderly people all are consumers in one way or the other. Every day we buy different products for our use.

It includes items of daily consumption like milk, vegetables, copy, pencil, etc. Items like cloth, furniture, electrical appliances are purchased occasionally. Some items such as car, house, land, etc. are normally purchased once in a lifetime.

The shop from where we do purchasing they too purchase these items from a wholesaler or the manufacturer. Therefore, the same person can be both a consumer as well as a seller. A consumer utilizes his resources-money to buy items.

**The following problems are faced by Consumers:**

1. **Variation in Prices**
2. **Misleading and incomplete labels**
3. **Non-availability of items in the market**
4. **Malpractices adopted by the manu­facturers or sellers**

**Solution:**

What can you do to solve your problems and enforce your rights in mentioned kinds of situations? Here's a guide to help you learn more about the legal remedies and other solutions available to you as a consumer.

Consider a consumer who visits a departmental store with some amount of money. He wants to buy some items. Shopkeeper will give the list of items available in store that the person can buy with available money. The list will be sorted on the basis of cost and quality of product. This helps the buyer to spend the available money on the items according to his priority.

**Implementation:**

**The application to solve the problems is built using c++ .File is used to store the list of available items in shop. Consumer will select the items which are available in the shop. On selected items we are going to apply Knapsack to get best available items that a consumer can buy.**

**Algorithm used:**

**1.0/1 Knapsack**

**Conclusion:**

**This software solution to the problem will definitely going to help the consumers. And it will help the consumers to buy the items in an efficient manner.**