- Now after discussing a bunch of theory about (6) the concept of dynamic programming we will be taking a look at how can we some certain problems using it. The first model problem, we some / introduce here is the "0-1 knapsack problem". This problem and the undenstanding of it will provide us a great insight into the solutions of the following problems too:

1) Subset Sum

2) Equal Sun Partition

3) Count of Subset Sum 4) Minimum subset sum difference

5) Target Sum.

6) Number of Subsets with given difference.

all of these problems are "minor variations" of the parent trapsack problem.

those minor variations as that will be helpful for us in solving several other problems as well.

0/1 Knapsack Problem.

Problem Definition: The O-1 Knapsack problem canbe described and visualized as follows:

1) Imagine you are given a bag whose capacity is "W" kg, what this means is that the bag could only hold a weight of "W" kg and if someone even tries to put 0.1 kg inside the bag, the bag will be west and its contents well spell. W 7 Krapsack.