

Experiment No. 5

Aim: Write a program to implement of 0/1 knapsack problem using Dynamic programming

What is the 0/1 Knapsack Problem?

We are given N items where each item has some weight and profit associated with it. We are also given a bag with capacity W , [i.e., the bag can hold at most W weight in it]. The target is to put the items into the bag such that the sum of profits associated with them is the maximum possible.

In 0/1 Knapsack Problem,

- As the name suggests, items are indivisible here.
- We can not take the fraction of any item.
- We have to either take an item completely or leave it completely.
- It is solved using dynamic programming approach

Algorithm:



Algorithm Dynamic_knapsack ($n, W, w[], v[]$)

Input: n is total no. of items

W is the capacity of knapsack

$w[]$ stores weights of each item

$v[]$ stores values of each item

Output:

Returns total value of selected items for the knapsack.

```
for (i=0 to n) do
{
for (j=0 to W) do
{
table [i,0]=0
table [0,j]=0
}
```

Mumbai University Lab Manual

Padhraic Smyth



Mumbai University Lab Manual:

Mumbai University Lab Manual Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Mumbai University Lab Manual**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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