

## 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

**G Psacharopoulos**



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