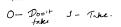
In the 0-1 Knapsack Problem, we are given a Knapsack or a Bag that can hold weight up to a certain value. We have various items that have different weights and values associated with them. Now we have to fill the knapsack in such a way so that the sum of the total weights of the filled items does not exceed the maximum capacity of the knapsack and the sum of the values of

Given a Knapsack with maximum weight limit as W and two arrays value[] and weight[]. You have to fill the knapsack in such a way so that the total weight of the filled items is less than or equal to W and the sum of the values of the filled items is maximum. value[i] and weight[i] will store the value and weight associated with ith item. You can not partially fill an item in the knapsack.

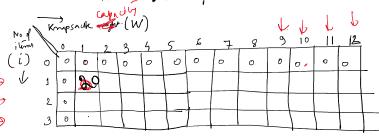


0-1 Knysnuh

Object	لطه	.62	оь 3
Weight	2	4	8
Profit 1	20 /	25 1	60.



Knapsich Capacity of W= 12 by



$V[i,W]_{z}Mux$	$V_{V[i-1,W]}, > \sum_{i=1}^{\infty}$
<u> </u>	V[i-1, W- weyw[i]] +

	مانحو	=	O.
TU	L Le	Don'	r Take.
K	WKnis	w[i]	
wig m [j]	1	1	

Pumpkin	(कर्दु) -> 2 kg.
fractional Unappa	, ,	D ly

v[i-1] [w-weign+[i]]+

 $= \sqrt{[0]} [2-2] + 20$

20+20 =20.

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 20 20 20 20 20 25 25 25 25 45 45 45 60 60 65 65 65 85	i\w	0	1	2	3	4	5	6	7	8	9	10	11	12
2 0 0 20 20 25 25 45 45 45 45 45 45 45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	20	20	20	20	20	20	20	20	20	20	20
3 0 0 20 20 25 25 45 45 60 60 65 65 85	2	0	0	20	20	25	25	45	45	45	45	45	45	45
	3	0	0	20	20	25	25	45	45	60	60	65	65	85