YOUV

=> 0/1 Knapsack Problem

n=number of objects

W = Capacity of Knapsack
Table = V(I -- n, 0 -- W) [V[i][j]

1) Make V[i][o] = 0 for osiso

2) if j<wi then take v[i][i] = v[i-1][i]

3) if i > w: then take v[i][i] =

masc(v[i-1][i] v[i-1][i-w:] = Vi

Example

Item weight Value

	youv.
Date:	

4	-	7													
		2	0	7	2	3	4	5	6	7	-8	9	10	11	
	11	0	0	0	0	0	0	0	0	0	0	0	0	0	
W1=1	VI=I	1	0	7	7	Ĺ.	1	1	1	1	1	1	1	7	
$\omega_2 = 2$	V2=6	2	0	1	C	7	7	Ŧ	7	7	7	Ŧ	7	7	
W3-5	V3=18	3	0	1	ς	7	Ŧ	12	19	24	25	25	25	25	
Wy= 6	V 4=22	4	0	1	8	7	7	18	22	2 24	28	2	3 2	9 40	
Ws=7	15=28	3 5	0	1	E	7	7	18	3 22	2 28	20	3	4 3	5 40	

$$-\frac{1}{2} V = \frac{1}{2} V = \frac{1$$

$$\rightarrow V [3][1] = \sqrt{12} V[1-1][1]$$

$$= V [2][1]$$