## Assignment of

2	Solve	the	follor	oing	insta	ne b	Kno	apsack	problem	with
					psack				-	

weight of 4 object = 3,4,2,3 respectively

Poglite of 4 object = 30,45/25, 36 rupictively

Do not use memory functions. 1. ( 2 10 1) = 000

contained benefits to

objects	weight	Poplit 1984 who are Brode (1)
in the second	3	430 1 40 × × × 10 11
9 4. 2111,	<b>Ч</b>	145 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
111.311	11 2 11 11	25 m Jup NU , 1 10
Ч	3	36

ν[i-1,j] ij ω;>j +1

[[max ξν[i-1,j], ν[i-1,j-w;]+Pi] ij ω;≤j

And the read of marrial of the

1					_					1,50		/	100000
	p/m	0	1	2	3	4	5	6	7	8	9	10	
	0.	O	0	10	. 0	o',	1,011	0	,0,	OI	(0)	0	
	1	10	0	0	30	30	30	30	30	30	30	30	
	2	0	0	0	30	45	45	45	75	75	75	75	
	3	O	0	25	25	25	55	70	75	75	100	100	
	ų	0	0	25	36	36	61	70	75	91	106	11)	
-	-												The state of the latest like t

when i=1, w1=3, P1=30 Step 12

j=1, v[1,1] = v[0,1] = 0

j=2, v[1,2] = v[0,2] =0

1=3, V[1,3] = max{V[0,3], V[0,0] + 30} = 30

j=4, V[1,4] = max { V[0,4], V[0,1] + 30 } = 30

j=5, V[1,5] = max {V[0,5], V[0,2]+30} = 30

v[1,6] = max {v[0,6], v[0,3]+303=30 j=6,

	j=7, v[1,7] = max fv[0,7], v[0,4]+ Boz =30/
	j=8, V[1,8] = max fv[0,8], v[0,5]+30} = 30
	j=9, V[1,9] = max{V[0,9], V[0,6],+364=301
	1=10, V[1:10] = max & V[0:10] \ ([0:1] \ 1] \ 303 = 30
16	18: 818 + (u.87v. (8.87v) word : (8.07v .8:6)
	Shpari when real, wa = H, Paring [V, V] V . 11:1
	12 - PJE. + (G.E) V / rom = (2, N) 4 . 2= 6
	7=1= (10[2] = 000 (01] = 000 = (1,0) 0 2=1
· P	3=2 (V[2] = VV([01,2] =0 com = [6,4] V. (6:1)
No.	J=3 1 10 [2,3] = 3000 (0,3) = 3000 (0,0) (0,0)
	13/24 [1,4] = max 2 y [1,4]; v[1,0] + 45 3 = 45
1	13=515 V(21,57) = max ( V(1,57), V(1,17) +453 = 45
<u>■</u> , 1	j=6, v[2,6] = maxfv[1,6], v[1,2] + 45g = 45
	j=7, v[2,7] = maxfv[1,7] 11/4/1/3) +/45/3/ FX475
	i=8 ! V(2,8) = (max & V(1,8), V(1,4) +45} = 75
	j=q, N[2,9] = max { N[1,9], N[1,5] + 45} = 75
	1=1012012 [210] = max, 4 /[1,16], 2[1,6], tusg= 75
3	15 20 11 11 11 11 11 11 11 11 11 11 11 11 11
• 1	Step 32 when 1=3[w3+2, P3=250 w.H.
	Sababas tor in byda bre injunt
	j=1, v[3,1] = v[2,1] = o[e,1] v ([e,0])
	j=2, v(3,2) = max/1/2,1], N(2,6)+25 4=25
	1=3 V[3,3] = max 4 V[2,3], V[2,1] + 25 } = 25
	j=4, V[3,4] = max f() [244]; V[21,2]+ 28 4 = 25
	1=5 V(3,5]= max & v[2,5],  v[2,3]+253=55
	1= h V[2, L] = max & x (2, 6), v (2/4) + 254= 70
1.1	1=2 V[3,7] = max{V(2,7], V(2,5)+254=75
	1-0 1/2, 27 = max & N(2,8), V(2,6) +254=75
	1:00 11[2,9] = max { V[2,9], V[2,7] +25 y= 100
1.20	J=10, V[3,10] = max {V[2,10], V[2,8] +25}=100

	Abhishek.R IBM19CS4DD
	Story When 1=4, Wy=3, Py=36 P1
	12 - 1 'S " 1 + 1 (A ( )" 1 ( A & AMAC) . (* 24. )
	J=1, V[4/1] = N[3/1] = 0 20077 [P/1] V D
	j=2, [~[4,12] = v(3,12] = 25 - [11,1] / 111
	j=3, v[4,3] = max {v[3,3], v[3,0] + 363=36
	j=4, v[4,4]= max { v[3,4], v[3,1]+ B6}=36
1	j=5, v[415] = max { v[3,5], v[3,2] + 36 } = 61
	1=6, v(4,6) = max & v[3,6], v(3,3) + 363 = 70
8	j=7, V[417] = max & V[317], V[3,4]+36] = 75
	j=8, v[4,8] = max & v[3,8], v[3,5] + 363 = 91
	1=9, [v[4,9]= max {v[3,9],v[3,6]+363=106
	1=10, 1/(4,10) = max &//(3,10), V[3,7) + 363=111
	24 - \$24 + [c.1]v. [J.1]v2xom - [J.5]v d.i.
	>> phimal (Solution + FI) / from - [FIF] V. FI
	SE = PSHE [IN Duing] = IN [Uino] . (3, E) N 1 3 - (1)
	26 : {14 + (2,174 , (P, +711) good (P; +14) + P; +35
	26 yth object is selected as maximum Porfit.
	then 111-36=75
	then v[3;7]= N[2;7]=75 11/1 57/3
	therefore 3rd object is not selected.
-	V(2,7) # V(1,9) 1:1,0) 1:1
	28 2 20 and object, is Selected ( ( ) )
	75-P1 = 17-5-45-30 / m// (0.5)/ 5-1
	20 - [ V3[113] + V[613] . 11 11 . 11 12 . 11 12
	22 = \$ 20 f (830) 4 6 2 ( ) v 3 rom ( ) 2 2 / 2 - 8
	JE STARTIONIELL IST CHURED . V - [J. E]V
	26-528 F(2,5)V, [F, C]V}, com - [E, S]V, e-i
	11 - \$ 31(F, C) × . (0 - 11) 3 1 - (11) 1 . P - 2
	11 - 855 + Carely (nic) x 3 mil . (nic) x
3	