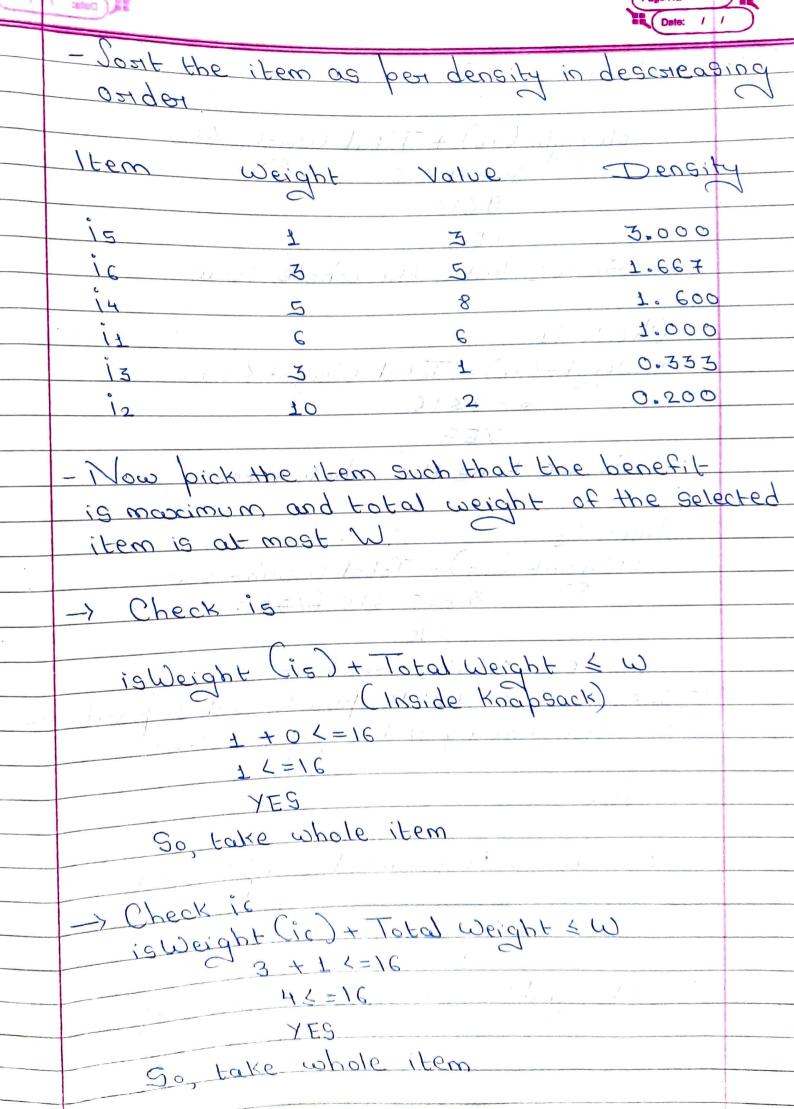
I-scample

is maximum.

1	Date:			1					
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	· Vlasabt	Value						
	17 Ew	Weight							
			6						
	t 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2						
	12	70	1						
	i3	3							
	١٠	5	8						
	19!	some by the	~						
	Ìc	3	5	09=1					
				,					
1	Stebs:-	and in the	100 0 21 91	Delicine to the second					
10.4	- speaks	at idt bi	was total and I	stel trist					
	- Calculat	e value ben	weight for	reach item					
	Cue con	call this val	ue density)						
	118 1879 Ju	20 0451 32		200 15 11 -					
	- Sout the items as per the value density								
	in descending order.								
				3/0/200					
,	- Take a	s much item	as bossible	not almead	4				
	taken	in the knat	agacks we down	not already	1				
			· · · · · · · · · · · · · · · · · · ·	4 4					
	- Add do	ngitu column	n to the tal	ole					
) - /						
,	· / · · · · · ·	density =	value / weight						
			' na' 1.						
	11 000	Weight	Value	Density					
	Item	C G G		- Constant					
	U	6 , , ,	11 G	1.000					
	11/1/1/2		2	0.200					
	12	10	1	0.333					
	13	5	8	1.600					
	Ĵц	5	3	3.000					
	15	7		1.667					
	10	3	5						



- Check in is Weight (in) + Total Weight & W 5+4616 9616 So we take the whole item Check is is weight (i) + Total weight & w 6+9516 So, we take the whole item. - Checkiz is Weight (i3) + Total Weight & w 3+15 316 (YES) Name So we will take fraction We will fill the knapsack with 1 part of is item having value (1) = 0.333 Now, 1 part of i3 + Total weight & w 1+15 & W Total weight is 16 so we will stop

JINAPSACK

1						
	Item	Weight	Value	Total	Benefit	
				Weight		
			-			
	15	7	3	<u>.</u>	3.000	
	16	3	5	4	8.000	
	-14	5	8	9	16.000	
	. 1 1	ϵ	6	15	22.000	
	13	L.	0.333	$\mathcal{T}\mathcal{E}$	122.333	
						7

So, the maximum benefit is 22.333