

m= 7 (knapsack capacity) P=(1,4,5,7) W=(1,3,4,5)

(P) W 0 1 2 3 4 5 6 7 (1) 1	r F V	n= 7 ?=(1 V=(1	7 (knap ,4,5,7) 1,3,4,5)	sack ca	pacity)				Nav	<u>akh</u>
(1) 1 Image: Second	(P)	W	0	1	2	3	4	5	6	7
(4) 3 Image: Constraint of the second se	(1)	1								
(5) 4	(4)	3								
(7) 5	(5)	4								
	(7)	5								

r F V	m=∑ P=(1 ₩=(7 (knap: ,4,5,7) 1,3,4,5)	sack ca	pacity)				Nav	lakhi
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0							
(4)	3	0							
(5)	4	0							
(7)	5	0							

r F V	n=∶ P=(1 V=(7 (knap ,4,5,7) 1,3,4,5)	sack ca	pacity)	ed 1(kg) Got profit	1		Nav	lakhi
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1						
(4)	3	0							
(5)	4	0							
(7)	5	0							

m= P= W=	= 7 (knap (1,4,5,7) =(1,3,4,5)	sack ca	pacity) Need Can So pi	d 2(kg) get only 1(rofit of 1	kg)		Nav	
(P) V	V 0	1	2 /	3	4	5	6	7
(1) 1	0	1	1					
(4) 3	3 0							
(5) 4	4 O							
(7) 5	5 0							

r F V	n= 7 P=(1 V=(7 (knap ,4,5,7) 1,3,4,5) ^{Hc}	sack ca ive 1 (kg)	pacity)	N C S	leed 3(kg) Can get only 1 o profit of 1	(kg)	Nav	lakhi
(P)	W	0	1	2	3 /	4	5	6	7
(1)	1	0	1	1	1				
(4)	3	0							
(5)	4	0							
(7)	5	0							

m= 7 P=(1 W=(7 (knap ,4,5,7) 1,3,4,5)	sack ca ave 1 (kg)	ipacity)		Na Ci Sc	eed 4(kg) an get only profit of 1	Nav	lakhi
(P) W	0	1	2	3	4	5	6	7
(1) 1	0	1	1	1	1			
(4) 3	0							
(5) 4	0							
(7) 5	0							
(7) 5	0							

r F V	n= ⁻ ?=(1 V=(7 (knap ,4,5,7) 1,3,4,5)	sack ca ave 1 (kg)	pacity)			Nee Car So p	d 5(kg) get only 1(k rofit of 1	(g)
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1		
(4)	3	0							
(5)	4	0							
(7)	5	0							

m= P=(W=	= 7 (knap (1,4,5,7) =(1,3,4,5)	sack ca	pacity)			& SI	Nav oon	<u>lakhi</u>
(P) W	0	1	2	3	4	5	6	7
(1) 1	0	1	1	1	1	1	1	1
(4) 3	0							
(5) 4	0							
(7) 5	0							
(7)								

1 	m= ⊃=(` ₩=(7 (knap 1,4,5,7) (1,3,4,5) • ^{Ha}	sack ca ave 3(kg)	oacity)	Need 1 kg So cant se hence we	g elect 3kg e retain the a	old profit	Nav	
(P)	W	5	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1						
(5)	4	0							
(7)	5	0							

r F V	m= 7 P=(1,2 N=(1,	(knap: 1,5,7) 3,4,5)	sack ca ave 3(kg)	pacity)	Need 2 kg So cant so hence we	g elect 3kg e retain the c	old profit	Nav	
(P)	W	5	1	2 /	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1					
(5)	4	0							
(7)	5	0							

r F V	n=∑ ≥=(1 V=(7 (knap ,4,5,7) 1,3,4,5) / ^H	osack ca ave 3(kg)	ipacity)	Need 3 kg hence we We select going to p From these	retain the c this after en revious row two optior	old profit and aptying the 3 (kg) positi as choose th	d reject this i bag by 3kg ons backwa e max	tem OR means irds
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	1 O R				
(5)	4	0							
(7)	5	0							
(4) (5) (7)	3 4 5	0 0	1	1	1 ÖR				

r F V	n=∑ ≥=(1 N=(7 (knap ,4,5,7) 1,3,4,5) / ^H	osack ca ave 3(kg)	pacity)	Need 3 kg hence we We select going to p From these	retain the o this after em revious row e two option	ld profit and nptying the 3 (kg) positi s choose th	d reject this i bag by 3kg ons backwa e max	tem OR means irds
(P)	W	J	1	2	3 /	4	5	6	7
(1)	1	0	1	1 🔸	- 1/	1	1	1	1
(4)	3	0	1	1	1 O R				
(5)	4	0							
(7)	5	0							

r F N	m= P=(1 N=(7 (knap ,4,5,7) 1,3,4,5)	sack ca ave 3(kg)	pacity)	Need 3 kg hence we We select going to p From these	retain the o this after err revious row 3 two option	ld profit and ptying the 3 (kg) positi s choose th	d reject this i bag by 3kg ons backwa ie max	tem OR means rds
(P)	W	5	1	2	3	4	5	6	7
(1)	1	0	1 🔸	- 1 🔸	- 1/	1	1	1	1
(4)	3	0	1	1	1 O R				
(5)	4	0							
(7)	5	0							

r F V	n= 7 P=(1 V=(7 (kno ,4,5,7 1,3,4,	apso 7) 5) ^{Hav}	ack ca e 3(kg)	pacity)	Need 3 kg hence we We select going to p From these	retain the c this after en revious row two optior	ld profit and hptying the 3 (kg) positi s choose th	d reject this i bag by 3kg ons backwa e max	tem OR means rds
(P)	W	()		1	2	3	4	5	6	7
(1)	1	0	-	1 🔸	- 1 +	- 1/	1	1	1	1
(4)	3	0		1	1	1 O R				
(5)	4	0								
(7)	5	0								

	m= P=(W=	7 (knap 1,4,5,7) (1,3,4,5)	osack ca lave 3(kg)	pacity)	$f_i(y) = MAX\{f_{i-1}(y), f_{i-1}(y-w_i)+p_i\}\}$ Need 3 kg hence we retain the old profit and reject this item OR We select this after emptying the bag by 3kg means going to previous row 3 (kg) positions backwards From these two options choose the max					
(P) W	0	1	2	3	4	5	6	7	
(1) 1	0 -	🗕 1 🔶	- 1 -	- 1/	1	1	1	1	
(4) 3	0	1	1	(1) OR (4+0) =4					
(5	5) 4	0								
(7	7) 5	0								

	r F V	n=∵ P=(1 V=(7 (knap ,4,5,7) 1,3,4,5)	sack ca ave 3(kg)	pacity)	Need 4 k hence w We selec going to From the:	g HAVE 3 KG e retain the o t this after em previous row se two option	ld profit and ptying the 3 (kg) positi s choose th	d reject this i bag by 3kg ons backwa e max	tem OR means rds
(P)	W	0	1	2	3	4	5	6	7
	(1)	1	0	1	1	1	1	1	1	1
	(4)	3	0	1	1	4				
	(5)	4	0							
	(7)	5	0							

r F V	n=` ₽=(1 ₩=(7 (knap ,4,5,7) 1,3,4,5) / ^{Hc}	sack cc ave 3(kg)	ipacity)	Need 4 k hence w We selec going to From the:	g HAVE 3 KG e retain the old t this after emp previous row 3 se two options	d profit and otying the (kg) positi choose th	d reject this i bag by 3kg ons backwc e max	item OR means ards
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	4				
(5)	4	0							
(7)	5	0							

1 	m= 7 P=(1 W=(1	7 (knap ,4,5,7) 1,3,4,5)	sack ca ave 3(kg)	pacity)	Need 4 k hence w We selec going to From the	g HAVE 3 KG e retain the old t this after emp previous row 3 se two options	d profit and otying the 6 (kg) positi choose th	d reject this i bag by 3kg ons backwa ie max	tem OR means rds
(P)	W	Ő	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	4	1 OR			
(5)	4	0							
(7)	5	0							

m= 7 (knaps P=(1,4,5,7) W=(1,3,4,5)	ack cc ve 3(kg)	apacity)	Need 4 kg hence we We selec going to p From thes	g HAVE 3 KG e retain the old t this after em previous row 3 se two options	d profit an otying the 6 (kg) positi 6 choose th	d reject this bag by 3kg ons backwo ie max	item OR means ards
(P) W /J	1	2	3	4	5	6	7
(1) 1 0	1	1	1 🔶	1	1	1	1
(4) 3 0	1	1	4				
(5) 4 0							
(7) 5 0							

r F V	n= P=(1 N=(7 (knap ,4,5,7) 1,3,4,5)	sack ca ave 3(kg)	ipacity)	Need 4 kg hence we We selec going to From thes	g HAVE 3 KG e retain the old t this after emp previous row 3 se two options	d profit an otying the (kg) positi choose th	d reject this i bag by 3kg ions backwa he max	tem OR means irds
(P)	W	5	1	2	3	4	5	6	7
(1)	1	0	1	1 🔺	- 1 -	- 1	1	1	1
(4)	3	0	1	1	4	I OR			
(5)	4	0							
(7)	5	0							

1 	m= P=(1 W=(7 (knap 1,4,5,7) (1,3,4,5)	sack cap ave 3(kg)	oacity)	Need 4 kg hence we We select going to p From thes	g HAVE 3 KG e retain the old this after emp previous row 3 e two options	d profit and otying the (kg) positi choose th	d reject this i bag by 3kg ons backwa he max	tem OR means ards
(P)	W	J	1	2	3	4	5	6	7
(1)	1	0	1 🔶	1 🔺	- 1 -	1	1	1	1
(4)	3	0	1	1	4	1 OR			
(5)	4	0							
(7)	5	0							

r F V	n= 7 P=(1 V=(7 (knap: ,4,5,7) 1,3,4,5) / ^{Hc}	sack ca ave 3(kg)	pacity)	f _i (y) = Need 4 kg hence we We select going to p From these	MAX{f _{i-1} HAVE 3 KG retain the old this after emp revious row 3 two options	(y),f_{i-1}() d profit and otying the (kg) positi choose th	/-w_i)+p_i) d reject this i bag by 3kg ons backwa e max) tem OR means rds
(P)	W	5	1	2	3	4	5	6	7
(1)	1	0	1 🛶	1 🔺	- 1 -	1	1	1	1
(4)	3	0	1	1	4	1 OR (4+1) =5			
(5)	4	0							
(7)	5	0							

r F V	m= ; P=(1 W=(7 (knap ,4,5,7) 1,3,4,5) / ^{Hc}	sack cc ave 3(kg)	apacity)	Need 5 kg hence we We select going to p From thes	g HAVE 3 KG e retain the c this after en previous row e two optior	old profit and nptying the 3 (kg) positi 1s choose th	d reject this i bag by 3kg ons backwc e max	item OR means ards
(P)	W	J	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	4	5	*		
(5)	4	0							
(7)	5	0							

r F N	n= 7 P=(1 V=(1	7 (knap ,4,5,7) 1,3,4,5)	sack ca ave 3(kg)	pacity)	Need 5 kg hence we We select going to p From these	g HAVE 3 KG e retain the o this after er previous row e two optio	; old profit and mptying the 73 (kg) positi ns choose th	d reject this bag by 3kg ons backwo e max	item OR means ards
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	4	5	1 OR		
(5)	4	0							
(7)	5	0							

r F V	m=∶ P=(1 W=(7 (knap ,4,5,7) 1,3,4,5) / ^{Hc}	sack cc ave 3(kg)	ipacity)	Need 5 kg hence we We select going to p From thes	g HAVE 3 KG e retain the c this after en previous row e two optior	old profit and hptying the b 3 (kg) positio hs choose the	reject this i ag by 3kg ns backwc max	item OR means ards
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	4	5	1 OR		
(5)	4	0							
(7)	5	0							

r F V	m= 7 P=(1 W=(7 (knap ,4,5,7) 1,3,4,5)	sack ca ave 3(kg)	pacity)	Need 5 kg hence we We select going to p From thes	g HAVE 3 KG e retain the o this after em previous row e two option	ld profit and pptying the b 3 (kg) positic s choose the	reject this i bag by 3kg ons backwa e max	tem OR means irds
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1 🛶	1	1	1
(4)	3	0	1	1	4	5	1 OR		
(5)	4	0							
(7)	5	0							

r F V	m=∵ P=(1 N=(7 (knap ,4,5,7) 1,3,4,5) / ^{Hc}	sack cc ave 3(kg)	apacity)	Need 5 kg hence we We select going to p From these	HAVE 3 KG retain the ol this after em revious row 3 two options	d profit and ptying the b 3 (kg) positic s choose the	reject this i bag by 3kg ins backwc e max	tem OR means irds
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1	1	1 🛶	1 🖛	1	1	1
(4)	3	0	1	1	4	5	1 OR		
(5)	4	0							
(7)	5	0							

r F N	m= 7 P=(1 N=(1	7 (knap ,4,5,7) 1,3,4,5)	sack ca ave 3(kg)	pacity)	Need 5 kg hence we We select going to p From these	HAVE 3 KG retain the o this after em previous row 3 e two option	ld profit and ptying the b 3 (kg) positic s choose the	reject this i bag by 3kg ons backwo e max	item OR means ards
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1	1 🛶	1 🛶	- 1 -	1	1	1
(4)	3	0	1	1	4	5	1 OR		
(5)	4	0							
(7)	5	0							

	m= P=(` W=(7 (knap 1,4,5,7) 1,3,4,5) / ^{Hc}	sack ca ave 3(kg)	pacity)	f _i (y) = Need 5 kg hence we We select going to p From these	MAX{f _i . HAVE 3 KG retain the c this after en revious row two optior	1 (y), f_{i-1}(y and profit and aptying the b 3 (kg) position as choose the	•w _i)+p _i) reject this ag by 3kg ns backwo max)} item OR means ards
(P) W	5	1	2	3	4	5	6	7
(1) 1	0	1	1 🛶	- 1 🛶	1 🖛	1	1	1
(4) 3	0	1	1	4	5	1 OR (4+1) =5		
(5) 4	0							
(7	r) 5	0							

r F V	n=∶ P=(1 V=(7 (knap ,4,5,7) 1,3,4,5)	sack ca ave 3(kg)	pacity)	f _i (y) =	MAX{f _{i-1}	(y),f _{i-1} (y-w _i)+p _i))	
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1	1	1 👞	1	1	1	1
(4)	3	0	1	1	4	5	5	¹ 1 ^{OR} (4+1) =5	
(5)	4	0							
(7)	5	0							

r F V	n= [°] =(1 V=(7 (knap ,4,5,7) 1,3,4,5) • ^{Ha}	sack ca ave 3(kg)	pacity)	f _i (y) =	MAX{f _{i-1}	(y),f_{i-1}(Similarly	y-w _i)+p _i)	}
(P)	W	J	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1 🔺	1	1
(4)	3	0	1	1	4	5	5	5	1 OR (4+1) =5
(5)	4	0							
(7)	5	0							

m= P=(1 W=(7 (knaps ,4,5,7) 1,3,4,5) / ^{Hc}	sack car Ive 4(kg)	Need So co Old p	d 1 kg ant take this profit retaine	; item ed		Nav	
(P) W	9	1	2	3	4	5	6	7
(1) 1	0	1	1	1	1	1	1	1
(4) 3	0	1	1	4	5	5	5	5
(5) 4	0							
(7) 5	0							

r F V	n= P=(1 N=(7 (knap 1,4,5,7) 1,3,4,5)	sack cap	Dacity) Nee So c Old	d 1 kg HAVE ant take this profit retaine	: 4 kg s item ed		Nav	lakhi
(P)	W	Ç	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	4	5	5	5	5
(5)	4	0	1						
(7)	5	0							

r F N	m= ≥=(1 ₩=(7 (knap: 1,4,5,7) (1,3,4,5) / ^{Hc}	sack ca ave 4(kg)	pacity) Nee So c Old	d 2 kg HAVE ant take this profit retaine	4kg sitem ed		Nav	
(P)	W	<u> </u>	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	4	5	5	5	5
(5)	4	0	1	1					
(7)	5	0							

r F V	n= ≥=(1 V=(7 (knap 1,4,5,7) 1,3,4,5) / ^{Hc}	sack ca ave 4(kg)	Dacity) Need So co Old p	d 3 kg HAVE ant take this profit retain	: 4kg s item ed		Nav	lakhi
(P)	W	ç⁄	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	4	5	5	5	5
(5)	4	0	1	1	4				
(7)	5	0							

					f.(v) =	MAX{f.	(v).f()	/-w;)+p;)'	
r F	n= ²=(1	7 (knap: ,4,5,7)	sack ca	pacity)		4ka			
	∿=(1,3,4,5)	ave 4(kg)	So e OR t to th	at ky nave ither reject th ake this item ie left	is item and a and create	continue w place by n	ith old profit noving 4 (kg)	positions
(P)	W	Ŷ	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0 🖣	_ 1 🗸	<u> </u>	_ 4 _	5	5	5	5
(5)	4	0	1	1	4	5 OR (5+0) =5			
(7)	5	0							



m= P= W=	$f_{i}(y) = MAX\{f_{i-1}(y), f_{i-1}(y-w_{i})+p_{i}\}$ $m = 7 (knapsack capacity)$ $P = (1,4,5,7)$ $W = (1,3,4,5)$ $Have 4(kg)$ Need 6 kg HAVE 4kg So either reject this item and continue with old profit OR take this item and create place by moving 4 (kg) positions to the left $(P) W C 1 2 3 4 5 6 7$											
(P) V	1 9	1	2	3	4	5	6	7				
(1) 1	0	1	1	1	1	1	1	1				
(4) 3	0	1	1.	- 4 -	5	- 5 -	5	5				
(5) 4	0	1	1	4	5	6	5 OR (5+1) =6					
(7) 5	0											

rr P W	$f_{i}(y) = MAX\{f_{i-1}(y), f_{i-1}(y-w_{i})+p_{i}\}\}$ $m = 7 (knapsack capacity)$ $P = (1,4,5,7)$ $W = (1,3,4,5)$ $Have 4(kg)$ Need 7 kg HAVE 4kg So either reject this item and continue with old profit OR take this item and create place by moving 4 (kg) positions to the left										
(P)	W	Ø	1	2	3	4	5	6	7		
(1)	1	0	1	1	1	1	1	1	1		
(4)	3	0	1	1	4 👞	5 🗸	- 5 -	- 5 🔶	5		
(5)	4	0	1	1	4	5	6	6	5 OR (5+4) =9		
(7)	5	0									

m=7 P=(1 W=(7 (knap: ,4,5,7) 1,3,4,5) / ^{Hc}	sack cap ave 5(kg)	Dacity) Nee So c Con	d 1 kg HAVE annot take t tinuing with	5kg the present i old profit	tem	Nav	lakhi
(P) W	9	1	2	3	4	5	6	7
(1) 1	0	1	1	1	1	1	1	1
(4) 3	0	1	1	4	5	5	5	5
(5) 4	0	1	1	4	5	6	6	9
(7) 5	0	1						

r F V	m= 7 (knapsack capacity) P=(1,4,5,7) W=(1,3,4,5) Need 2 kg HAVE 5kg So cannot take the present item Continuing with old profit										
(P)	W	9	1	2	3	4	5	6	7		
(1)	1	0	1	1	1	1	1	1	1		
(4)	3	0	1	1 /	4	5	5	5	5		
(5)	4	0	1	1 /	4	5	6	6	9		
(7)	5	0	1	1 🖌							

r F V	n= >=(` N=(7 (knap: 1,4,5,7) (1,3,4,5) / ^{Hc}	sack ca ave 5(kg)	pacity) Nee So c Con	d 3 kg HAVE annot take tinuing with	5kg the present it old profit	rem	Nav	lakhi
(P)	W	<u> </u>	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	4	5	5	5	5
(5)	4	0	1	1	4	5	6	6	9
(7)	5	0	1	1	4				

r F V	m= 7 (knapsack capacity) P=(1,4,5,7) W=(1,3,4,5) Need 4 kg HAVE 5kg So cannot take the present item Continuing with old profit											
(P)	W	9	1	2	3	4	5	6	7			
(1)	1	0	1	1	1	1	1	1	1			
(4)	3	0	1	1	4	5	5	5	5			
(5)	4	0	1	1	4	5	6	6	9			
(7)	5	0	1	1	4	5 🔻						

$f_{i}(y) = MAX\{f_{i-1}(y), f_{i-1}(y-w_{i})+p_{i}\}$ $m = 7 \text{ (knapsack capacity)}$ $P = (1,4,5,7)$ $W = (1,3,4,5)$ $Need 5 \text{ kg HAVE 5 kg}$ So either reject this item and continue with old profit OR take this item and create place by moving 5 (kg) positition to the left										
(P) W Q	1 2	3	4	5	6	7				
(1) 1 0	1 1	1	1	1	1	1				
(4) 3 0	1 1	4	5	5	5	5				
(5) 4 0	🛏 1 👞 1	4	- 5 -	- 6	6	9				
(7) 5 0	1 1	4	5	6 OR (7+0) =7						



$f_{i}(y) = MAX\{f_{i-1}(y), f_{i-1}(y-w_{i})+p_{i}\}$ $m = 7 (knapsack capacity)$ $P = (1,4,5,7)$ $W = (1,3,4,5)$ $Have 5(kg)$ Need 7 kg HAVE 5kg So either reject this item and continue with old profit OR take this item and create place by moving 5 (kg) positions to the left											
(P) W Q 1	2	3	4	5	6	7					
(1) 1 0 1	1	1	1	1	1	1					
(4) 3 0 1	1	4	5	5	5	5					
(5) 4 0 1	1 🔶	4	- 5 -	- 6 🔶	- 6 🔶	9					
(7) 5 0 1	1	4	5	7	8	9 OR (7+1) =9					

n P V	n= 7 P=(1 V=(7 (knap ,4,5,7) 1,3,4,5)	sack ca	pacity)				Nav	lakhi	
(P)	W	0	1	2	3	4	5	6	7	
(1)	1	0	1	1	1	1	1	1	1	
(4)	3	0	1	1	4	5	5	5	5	
(5)	4	0	1	1	4	5	6	6	9	
(7)	5	0	1	1	4	5	7	8	9	
	Final Profit is 9 now let us see how to get the element list selected in o <u>ur knapsack</u>									

۲ ۶ ۷ (P)	m= 7 P=(1 W=(W_	7 (knap ,4,5,7) 1,3,4,5) 0	sack ca 1	pacity) 2	3	4	5	6	7_		
(1)	1	0	1	1	1	1	1	1	1		
(4)	3	0	1	1	4	5	5	5	5		
(5)	4	0	1	1	4	5	6	6	9		
(7)	_5	0	1	1	4	5	7	8	9		
Since copy of the above value HENCE this item is a REJECT So item4 = 5kg REJECT and we move up											

m= P=(W=	7 (knap 1,4,5,7) (1,3,4,5)	sack ca	pacity)				Nav	lakhi ®	
(P) W	0	1	2	3	4	5	6	7	
(1) 1	0	1	1	1	1	1	1	1	
(4) 3	0	1	1	4	5	5	5	5	
(5) 4	0	1	1	4	5	6	6	9	
(7) 5	0	1	1	4	5	7	8	9	
Since NOT copy of the above value HENCE this item is a TAKEN So item3 = 4kg TAKEN and we move up and 4 (kg) positions left									

	m= 7 P=(1 W=(7 (knap ,4,5,7) 1,3,4,5)	sack ca	pacity)				Nav	lakhi [®]	
(P)	W	0	1	2	3	4	5	6	7	
(1)	1	0	1	1	1	1	1	1	1	
(4)	3	0	1	1	4	- 5 -	- 5	5 ←	5	
(5)	4	0	1	1	4	5	6	6	9	
(7)	_5	0	1	1	4	5	7	8	9	
	Since NOT copy of the above value HENCE this item is a TAKEN So item3 = 4kg TAKEN and we move up and 4 (kg) positions left									

m= 7 (knapsack capacity) P=(1,4,5,7) W=(1,3,4,5)									
(P) W	0	1	2	3	4	5	6	7	
(1) 1	0	1	1	1	1	1	1	1	
(4) 3	0	1	1	4	5	5	5	5	
(5) 4	0	1	1	4	5	6	6	9	
(7) 5	0	1	1	4	5	7	8	9	
Since NOT copy of the above value HENCE this item is a TAKEN So item2 = 3kg TAKEN and we move up and 3(kg) positions left									

ſ	n= 7	(knapso	ack cap	bacity)				NGV	ICIAII
۱ ۱	~_(1, ∕/=(1	,3,4,5)							
(P)	W	0	1	2	3	4	5	6	7
(1)	1		1 🖛	1 🖛	1	1	1	1	1
(4)	3	0	1	1	4	5	5	5	5
(5)	4	0	1	1	4	5	6	6	9
(7)	-5	0	1	1	4	5	7	8	9
		Since So ite	NOT cop m2 = 3kg	y of the c I TAKEN c	above vo and we n	alue HEN nove up	CE this ite and 3(kg	em is a TA 1) positior	KEN 1s left



m= 7 (knapsack capacity) P=(1,4,5,7) W=(1,3,4,5)									
(P)	W	0	1	2	3	4	5	6	7
(1)	1	0	1	1	1	1	1	1	1
(4)	3	0	1	1	4	5	5	5	5
(5)	4	0	1	1	4	5	6	6	9
(7)	5	0	1	1	4	5	7	8	9
Final answer : selected items item2 and item3 Total profit : 4+5 = 9									