Q2. Use an algorithm for greedy strategies for the knapsack to find an optimal solution to the knapsack instance n=7,m=15, (p1,p2....,p7)=(10,5,15,7,6,18,3), and (w1,w2,...w7)=(2,3,5,7,1,4,1).

Object	W+	Profit	P/W	Oljev	ω⊦	Bofil	Remainly apacity of houpsach	
1	2	1	5/				Mupsach	
2	3	5	5/3 = 1.6	5	ر	۷	15-1=14	
3	5	7 6	3/	7	2	10	14-2=12	
5	7	7	1	6	7	18	12-4=12 12-4=8 8-1=7.	
5	j	6	6/		7	3	8 - 1 = 7.	
ر د	4	18	4.5	3	5	15	7-5-2 2-2-0.	
7	1	3.	3_	2	2 '	3.7	2-2=0.	
,	,	J .		Max Profit = 550				

Q2. Formulate Fractional Knapsack Problem. Write Greedy Algorithm for fractional Knapsack Problem. Find the optimal solution for the following fractional Knapsack problem.

n=4, m=60, $W=\{40, 10, 20, 24\}$ and $P=\{280, 100, 120, 120\}$

Object	weight		P/W	Obj	Rejn	Prof; i	Remaining of capacity of knapsach.
2 / 3 / 4	1 o 2 o 2 s	100 100 120 120	7 10 6 5	2 1 3	16 40	100	50-10=50 50-40=10. 10-10=0-





