1.	Write an algorithm to find the maximum profit nearest to but not exceeding the given knapsack capacity using the Fractional Knapsack algorithm. **[10]**
2.	Write a program to find the maximum profit nearest to but not exceeding the given knapsack capacity using the Fractional Knapsack algorithm. (**Write C Code only**) **[10]**
3.	You are given an array A of 3n distinct elements. The task is to partition this array into three subarrays B, C, and D such that: 1. Each subarray contains n elements. 2. Each element of B is greater than every element of C, and each element of C is greater than every element of D. The goal is to find an efficient algorithm to do this partition and derive its time complexity. (**Write C Code only**) **[10]**