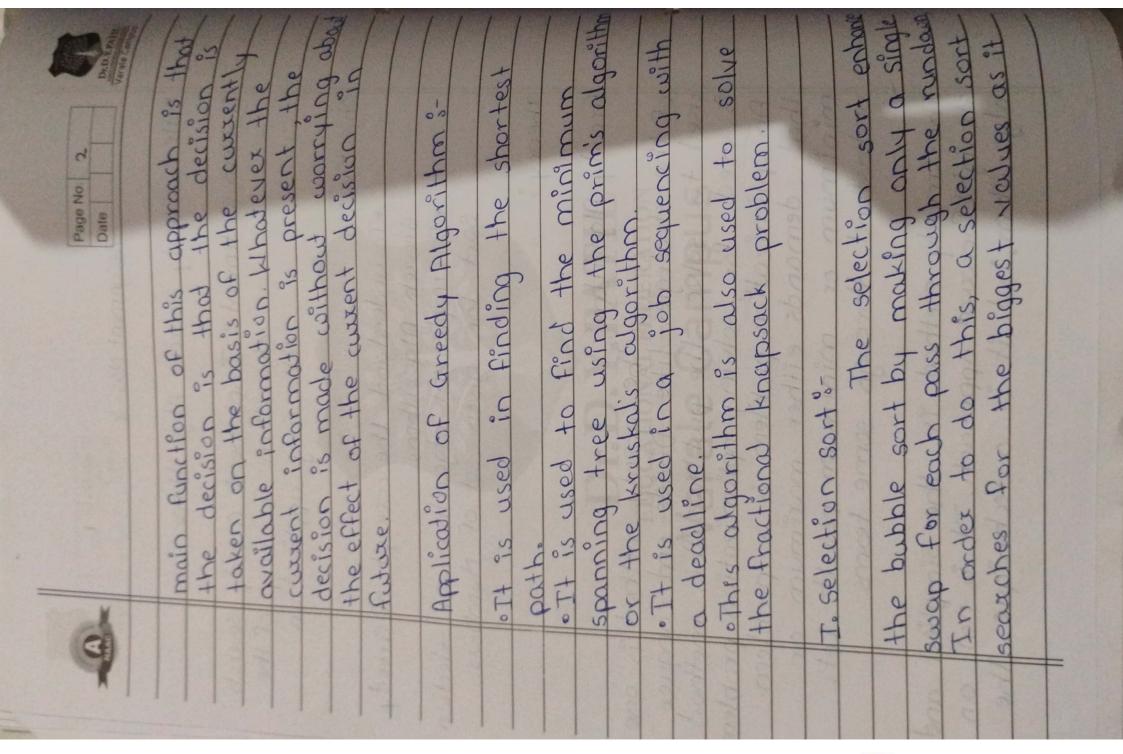
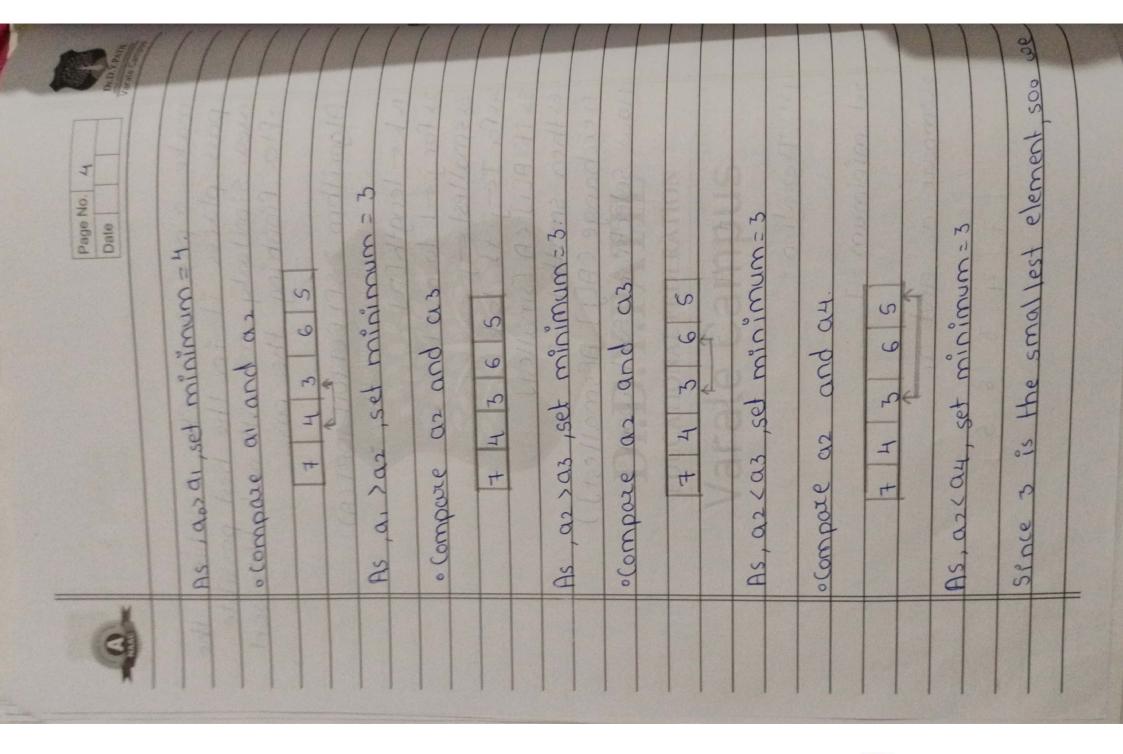
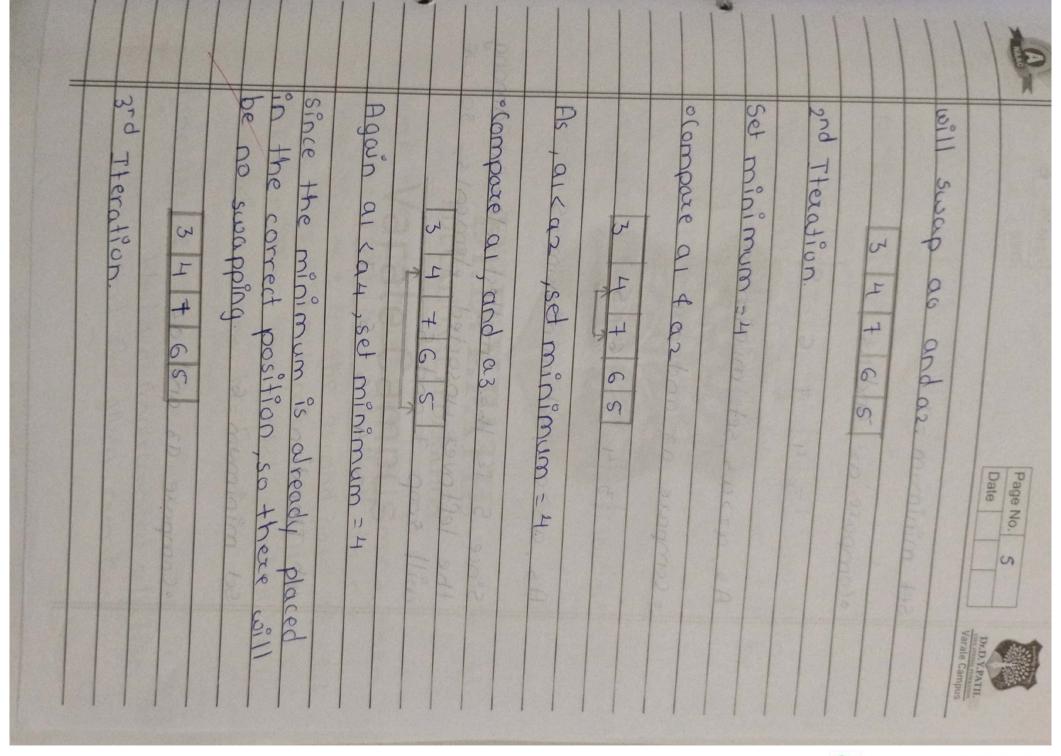
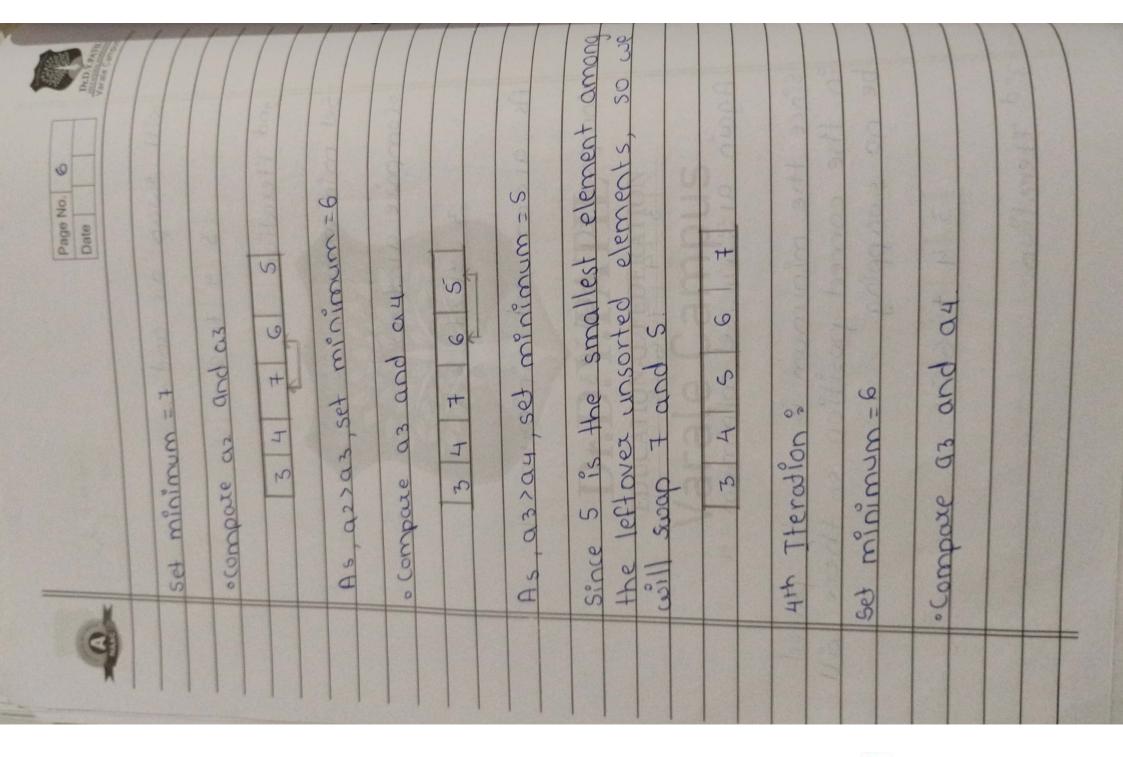
20-	Assignment No%-4 Page No. 1 Dr.D.Y.PATIL LINE ARRESTMENT Varale Campus
	Title: Greedy Search Algorithms.
	Problem Statement: Implement Greedy Search algorithm for any of the following application
Sign of	objective 3-1 toppe and to toppe and
	*To understand the concept of Greedy Secuch Algorithms.
	*To implement algorithm of Selection Sort for given set of Mumbers.
	Theory: - dtoo dt born it born it loo
ir ir	Greedy Algorithms. The greedy method is one
din	of the strategies like Divide and conquer used to solve the problems. This method
	is used for solving optimization problems. An optimization problem is a problem that demands either maximum or
inadas il miz	minimum or minimum results tets understand through some texms.
au chous	The Greedy method is the simpliest and straightforward approach. It is not an algorithm, but it is a technique. The



0	Page No. 3 Date DED YPATH. Varale Campus
	make a pass and, after finishing the pass, places it in the best possible area. Similarly, as with a bubble sort after finishing the pass.
	Algorithm: SELECTION SORT (A).
	1) k = length[A] 2) for j = 1 to p n-1 3) smallest = j 4) for T = j +1 to k 5) if A[i] < A [smallest] 6) then smallest = i Thexchange (A[j], A[smallest]) How Selection Sort works
	7 4 3 6 5
	1st Ttexation:
	Set minimum = 7
	ocompare as and a.
	7 4 3 6 5
+	







0-	Page No. 4 Dr.D.Y.PATIL
1	34567
/	As a3 < a4, set minimum =6
1111	since the minimum is already placed in the correct position, so there will be no swapping. 3 4 5 6 7
-	complexity Analysis of Selection Sort.
	Input: Given n input elements.
	output : Number of steps incurred to sort a list.
	logic. If we are given n element, then in the first pass, it will do n-1 comparisons: in the second pass, it will do n-2 in third pass, it will do n-3 is on. Thus, the total number of comparisons rane be found.
丁字!	We have implemented selection sort for given numbers.