Emperiment No.10 Sim: - Implementation of selection sorting technique considery Objective: - To inpart knowledge of sorting and searching algorithm. 1) Introduction to soting: 2) Types of sorting: It is the simplest soit method which performs sorting by refratedly moving the largest element to the highest index of any It comprises of comparing each element to its adjacent who and replace them accordingly. The insertion soft inserts each element of the array to its for place. It is try simple sort method which is used to arrange the deck of early while playing bridge. delection Sort finds the smallest element in the way and the it on first place of the list, then it finds the second small element in the array and place it or second place. This process continues untill all elements are moved to Their correct order.

(V) Mugh sort: Merge sort follows divide and conquer approach in awhich the list is first divided into the sets of equal elements and their each half of the list is sorted by viny merge sort. Introduction La selection sort: It is a simple sorting algorithm. This sorting algorithm is an inplace companyon based organitum in which the list is divided into two faits , the sorted part at the left end and unserted pail at the sight end. Initially the sorted part is empty and the assorted spart is the entire list. Aloction sort (A[O-n-1]) 4) Algorithm Usoits aguer away by selection sort. Montput: An array A[o.-n-1] of orderable elements.

Il output: Away A[o.-n-1] sorted in ascending order. torico to n-2 do mine for jeit to n- Ido in the state of th VF A [i] < A [min min f] surap A[i] and A[min]

Enample:-7/2/8/5/4 27854 248577 2/4/5/8/ 2/4/5/7/8/ 20 Conclusion Selection sort is sorting algorithm known by its sortlicity. Unfortunably it lacks effectively on huge list of items and about downot stop unless the number of iterations has been achieved even though the list is already noted. 1 Outcome: sorting and secuching techniques for real world Inflement applications.

