“ Develop C program to perform all sorting method by giving choice to sort with help of switch statement”

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Name of Industry (If Sponsored)	NA
Nature of Project	Application
Application(s) of Project	•

Abstract: This paper is scrutinizes the use of different Data Structures in C programming language, enabling viewer to get the complete concept of different aspects of C programming. Sorting is one of the most fundamental problems in computer science, as it is used in most software applications To satisfy this we created a simple menu-driven program displaying various sorting programs. We’ll look at two searching algorithms and four sorting algorithms here in detail, and go through examples of each algorithm and determine the performance of each algorithm, in terms of how “quickly” each algorithm completes its task.

Introduction (In brief)**:** The process of Sorting can be explained as a technique of rearranging the elements in any particular order, which can be set ready for further processing by the program logic. In C programming language, there are multiple sorting algorithms available, which can be incorporated inside the code. The various types of sorting methods possible in the C language are Bubble sort, Selection sort, Quick sort, Merge sort, Heap sort and Insertion sort. Sorting can be performed in various ways based on the sorting algorithm. In C programming language we do have several approaches to sort the list. The term sorting states arranging of data in a particular manner usually in ascending order. Though the way to sort the data is different in all of the sorting algorithms, the outcome of all of them is the same.

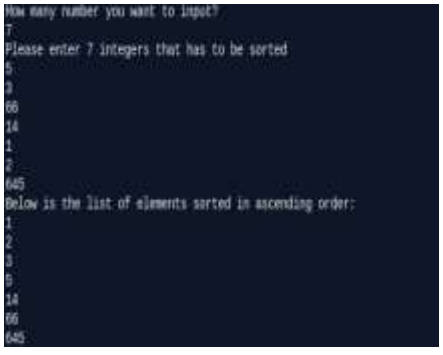

Fig.1.Bubble Sort

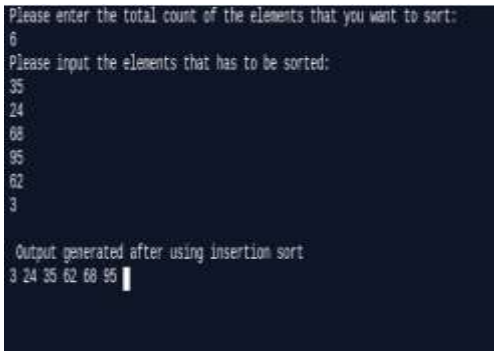

Fig.2.Selection Sort

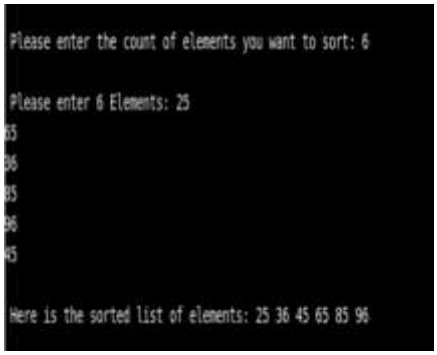

Fig.3.Insertion Sort