xDate of Problem: 23/09/2024

Date of Submission: 07/10/202024

Problem 6- Write a modular program to implement at least the following searching/ sorting algorithms. Write a **data independent** method for every algorithm.

1. Linear Search
2. Binary Search
3. Insertion Sort
4. Selection Sort
5. Bubble Sort
6. Radix Sort
7. Quick Sort

You are also requested to draw the flow diagram of the program.

Note: Load data from file to test the each algorithm. You are also required to give option interactive mode to load the input data for testing the algorithms.