**Write Algorithm/Pseudo Code and draw flowchart for the following programs.**

**Question No. 1.** Write a program that displays the values of elements of a static array of 10 elements which is initialized by values 3, 5, 7, 9, 11, 13, 15, 17, 19, 21 using a loop (while/do..while/for). Display array values using any loop.

**Question No. 2.** Assume you have a static array of 6 integer values. User will provide 6 integer values for this array; your program should check whether the values in array represent a palindrome or not. For example, a value 123321 is a palindrome value, but a value 123421 is not a palindrome.

**Question No. 3.** You have an array of 10 elements; each element is of type integer (int). User will input values for elements of array when program starts execution. User will further input a numeric value which he wants to search in this array; program should find all occurrences of this value in array and display the index of each location where match is found for this value.

**Question No. 4.** You are required to design a program which should allow creation of a dynamic array. User should provide the size of array as input which should be in range of 1 to 20, when program is executed. Further user will provide input for elements of array. For each element value to be given as input should be in range of 0 to 12. Your program should calculate and display average of all elements of this array. Further program should calculate and display the factorial of each element of this array.