Practice Questions Lab-02

Q1: Write a program which declares the array of size 5 and then take input from user and find the second maximum element.

Q2: Take the size of the array from the user and create the array dynamically then print the original array and then reverse the array using other pointer then print the reverse array.

Q3: Take the size of the array from the user and ask from till user enter the size greater then zero and then make a dynamic array of given size. Make a function of printArray which accepts pointer and size and print the array. In the main pass the array and given size.

Q4: Create an array of size given by the user then store the first index address in a pointer and calculate the sum and average of given numbers in array using pointer.

Q5: Create the array of the size given by the user and take input of elements. Then check whether the given array is palindrome or not.

[1,2,3,2,1] → palindrome because If we reverse the array we will get the same array.

Q6:Write a function which will take one array as input and will print frequency of each element in the array.
E.g. Input Array: 15,0,5,20,5,1,0,2,5,15

Output: 0 has occurred 2 times

1 has occurred 1 times

2 has occurred 1 ties

5 has occurred 3 times

15 has occurred 2 times

20 has occurred 1 time

Q7: Write a function which will take two parameters from user and will find HCF (Highest Common factor) of these two numbers.

Q8:Given a string as input, write a function that counts the numbers, the lower case, upper case and special characters.

Q9:Write a function that takes two strings as input and checks if the second string is a substring of the first. Return true if it is, and false otherwise.

Q10:Create a C++ program that prompts the user to enter a sentence, calculates and displays the length of the sentence, counts and displays the number of vowels in the sentence, and finally reverses the sentence and displays the result.