**Lab Task 1**

**Program Name:** Searching an array

**Program Purpose:** Passing array to function

**Problem Statement:**

* An array is initialized with twenty-five numbers using array initializer list.
* Then, a number is entered through the keyboard by the user, which should be searched in the array.
* Write down a function, which displays whether the searched number is present in the array or not? (Linear search) Decide the required parameters of the function yourself.
* If the number is present in the array, display the number of times it appears in the array.

**HINT:**

1. Use a counter (other than the loop counter) to keep track of how many times the number is found. Increment this counter each time the match is successful.

**NOTE:** Write this program WITHOUT using the Flag-controlled loop.

**Sample Outputs:**

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

**Lab Task 2**

Text, letter

Description automatically generated

**Lab Task 3**

Input a multi-word string (characters array) and trim the whitespace and save the new string into another characters array. That is, if the input string is “This is a fine cup of tea.” then the output string should be “Thisisafinecupoftea.”. Assume that the length of the input string will be less than 50. (Hint: you can check each character in the input string and copy it into output string, if it’s not a space character.)

**Home Task**

Home Tasks:

Exercise 26-28, 30