**Sheet # 5**

Due Date : 5 / 12 /2019

* method int inputArray(char[]list)

that fill the array from the user. The user will enter “#” to end the input, such that the character “#” is not stored in the array. The method should return the number of characters currently stored in the array.

* method char[] reverseArray(char[] list, int numChars**)**

where *numChars* is the number of characters currently stored in the array. The method returns another array having the same characters but in reverse order.

* method void displayArray(char[]list, int numChars)

that displays the characters stored in this array in one line.

* method void displayArray(char[]list, char ch , int numChars)

that displays the characters ch (If the character found ) as many times depend on its index in the array. Otherwise, print "This character is not found".

Incorporate the above methods into a testing class called **TestArray** with a **main()** method that will create an array of characters (assume the maximum number of characters that can be stored in the array is 30). Your program should then use the previously defined methods to do the following:

* Read a number of characters from the user and store them in the array.
* Display the characters in the array.
* Display a character in the array
* Reverse the characters in the array and store the result in another array.
* Display the characters in the reversed array.