Arrays Assignments

1   Program that will contain two arrays, one array to store the names of five students and another array to store the marks of these students. Display the student names with their corresponding marks

2   Program to sort the elements of an array in ascending order

3   A Program to display a four by four identity matrix

4   Write a program to find the product of two 2X2 matrices

5   Create a class called Numeral that has an array of ten numbers. Create a subclass called Numplay which has the following menu
    a. Display Numbers entered
    b. Sum of the numbers
    c. Average of the numbers
    d. Maximum of the numbers
    e. Minimum of the numbers

    Create appropriate methods in the class to execute the operations as per our choice and it should continue until the users' wishes

6   Implement Array sorting using
    a. Insertion Sort

7   Accept the names of ten candidates and sort them alphabetically

8   Write a program that reads a string, **reverse** it and prints it to the console. For example: "**introduction**" → "**noitcudortni**".

9   Write a program that detects how many times a substring is contained in the text. For example, let's look for the substring "**in**" in the text:
    We are liv**in**g **in** a yellow submar**in**e. We don't have anyth**in**g else. **In**side the submar**in**e is very tight. So we are dr**in**k**in**g all the day. We will move out of it **in** 5 days.

10 Write a program that finds the most frequent number in an array. Example:

    {4, 1, 1, 4, 2, 3, 4, 4, 1, 2, 4, 9, 3} → 4 (5 times)