

Exp. No: 2	Arrays of Java
20.07.2021	
Choose your three questions based on the formulae given below,	
Q1=((Regno%10)+1), Q2=((Regno+5) %10)+1, Q3=((Regno+8)%10)+1	
1	Given N numbers are entered from the keyboard into an array. The number to be searched is entered through the keyboard by the user. Write a Java program to find if the number to be searched is present in the array and if it is present, display the number of times it appears in the array.
2	Implement the following procedure to generate prime numbers from 1 to 100 into a program. This procedure is called sieve of Eratosthenes. step 1 Fill an array num[100] with numbers from 1 to 100 step 2 Starting with the second entry in the array, set all its multiples to zero. step 3 Proceed to the next non-zero element and set all its multiples to zero. step 4 Repeat step 3 till you have set up the multiples of all the non-zero elements to zero step 5 At the conclusion of step 4, all the non-zero entries left in the array would be prime numbers, so print out these numbers.
3	Write a java program to copy the given N numbers of one array into another 2 arrays in such a way that one array must contain the numbers in ascending order and the other must contain in the descending order.
4	Write a program to obtain transpose of a 4 x 4 matrix. The transpose of a matrix is obtained by exchanging the elements of each row with the elements of the corresponding column.
5	Create an array to store a given number by the user. Write a java program to find out all the search array (another input array) and its positions. Finally prints out the all search array elements with its positions.
6	Write a program in Java to display all the anagrams in a given character array. Note: Two words are anagrams if they contain the same characters.
7	Write a program in Java to find the first non-repeated character in a character array. For example, the first non-repeated character in the input 'abcdab' is 'c'.
8	Perform the following operations: Write a program in Java to print duplicate characters from an array? Write a program in Java to count the number of vowels and consonants in a character array?
9	Write a Java program to find the common elements between two arrays.
10	Perform the following operations: Write a program in Java to count the occurrence of a given character in an array? Write a program in Java to return the highest occurred character in an array?

