**Assignments**

1. Ezee Shop has an online portal where customers can check about different products. Customers can search for products by giving a key word. Write a program that accepts a product name and a key word, and checks if the key word is present in the given product name.

static String[] initProductNames()

static boolean isPresent(String[] productNames, String keyword)

1. Write a program to find the availability of given number in the array. Return -1 in case of failure.

static int findPosition(int num,int[] nos)

1. Write a function findPrime which will accept range of values from user and return int array from function. Array will contain all prime numbers from specified range.
2. Write a method to find the permutation and combinations of entered string.

String[] combinations(String input)

For Eg. Input string = “123”

Then Output will be

1 3 2

2 1 3

3 2 1

2 3 1

3 1 2

1 2 3

1. Create a two dimensional character array which will accept only two characters X or O. populate array with different combinations of X and O characters. If characters in diagonal or in same line will be declare as winner.

For ex

X O O

O X O

O O X : X wins