11. How to remove characters from the first String which are present in the second String?

using System;

class Program11 {

    static int NO\_OF\_CHARS = 256;

static int[] getCharCountArray(String str)

    {

        int[] count = new int[NO\_OF\_CHARS];

        for (int i = 0; i < str.Length; i++)

            count[str[i]]++;

        return count;

    }

static String removeDirtyChars(String str,String mask\_str)

    {

        int[] count = getCharCountArray(mask\_str);

        int ip\_ind = 0, res\_ind = 0;

        char[] arr = str.ToCharArray();

        while (ip\_ind != arr.Length)

        {

            char temp = arr[ip\_ind];

            if (count[temp] == 0) {

                arr[res\_ind] = arr[ip\_ind];

                res\_ind++;

            }

            ip\_ind++;

        }

        str = new String(arr);

    }

    public static void Main()

    {

        String str = "capgemini";

        String mask\_str = "mask";

        Console.WriteLine(removeDirtyChars(str, mask\_str));

    }

12. How to print all permutation of a String?

**using** System;

**class** Program12

{

**private** **static** **void** permute(String str,**int** l, **int** r)

    {

**if** (l == r)

            Console.WriteLine(str);

**else**

        {

**for** (**int** i = l; i <= r; i++)

            {

                str = swap(str, l, i);

                permute(str, l + 1, r);

                str = swap(str, l, i);

            }

        }

    }

**public** **static** String swap(String a,

**int** i, **int** j)

    {

**char** temp;

**char**[] charArray = a.ToCharArray();

        temp = charArray[i] ;

        charArray[i] = charArray[j];

        charArray[j] = temp;

**string** s = **new** **string**(charArray);

**return** s;

    }

**public** **static** **void** Main()

{

    String str = "ABC";

**int** n = str.Length;

    permute(str, 0, n-1);

}

}

13. Check whether the string is Anagram or not?

using System;

using System.Linq;

{

class Program13

{

static void Main(string[] args)

{

string text1 = "wxyz";

string text2 = "zyxw";

Console.WriteLine("Original strings: " + text1 + " " + text2);

Console.WriteLine("Check if two said strings are anagrams or not: " + test(text1, text2));

text1 = "pears";

text2 = "spare";

Console.WriteLine("\nOriginal strings: " + text1 + " " + text2);

Console.WriteLine("Check if two said strings are anagrams or not: " + test(text1, text2));

text1 = "stone";

text2 = "tones";

Console.WriteLine("\nOriginal strings: " + text1 + " " + text2);

Console.WriteLine("Check if two said strings are anagrams or not: " + test(text1, text2));

text1 = "cat";

text2 = "rat";

Console.WriteLine("\nOriginal strings: " + text1 + " " + text2);

Console.WriteLine("Check if two said strings are anagrams or not: " + test(text1, text2));

}

public static bool test(string text1, string text2)

{

string stext1 = String.Concat(text1.ToUpper().OrderBy(c => c));

string stext2 = String.Concat(text2.ToUpper().OrderBy(c => c));

if (stext1 == stext2)

{

return true;

}

else

{

return false;

}

}

}

}

14. WAP to read name (program) and print letters in ascending order (agmoprr)

using System;

public class Program14

{

public static void Main()

{

string str;

char[] arr1;

char ch;

int i,j,l;

Console.Write("\n\nSort a string array in ascending order :\n");

Console.Write("--------------------------------------------\n");

Console.Write("Input the string : ");

str = Console.ReadLine();

l=str.Length;

arr1 = str.ToCharArray(0, l);

for(i=1;i<l;i++)

for(j=0;j<l-i;j++)

if(arr1[j]>arr1[j+1])

{

ch=arr1[j];

arr1[j] = arr1[j+1];

arr1[j+1]=ch;

}

Console.Write("After sorting the string appears like : \n");

foreach (char c in arr1)

{

ch=c;

Console.Write("{0} ",ch);

}

Console.WriteLine("\n");

}

}

15. WAP to read a number (28156437) and it should print digits order wise(12345678)

using System;

{  
   class Program15 {  
      static void Main(string[] args) {  
         string inputString = ("28156437");  
         int sum = 0;  
         foreach (char c in inputString) {  
            if (char.IsDigit(c)) {  
               sum += int.Parse(c.ToString());  
            }  
         }  
         Console.WriteLine("The sum of digits in the string is: " + sum);  
      }  
   }  
}