

## **.NET PROGRAMMING LAB 9**

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**Section:** S-13

At the Low level, you need to solve the following five tasks:

**Task1:** The character C and a sequence of non-empty strings stringList are given. Get a new sequence with more than one character from the stringList, starting and ending with C.

**Task2:** A sequence of non-empty strings stringList is given. Get a sequence of ascending sorted integer values equal to the lengths of strings included in the stringList sequence.

**Task3:** A sequence of non-empty strings stringList is given. Get a new sequence of strings, where each string consists of the first and last characters of the corresponding string in the stringList sequence.

**Task4:** A positive integer K and a sequence of non-empty strings stringList are given. Strings of the sequence contain only numbers and capital letters of the latin alphabet. Get from stringList all strings of length K ending in a digit and sort them in ascending order.

**Task5:** A sequence of positive integers integerList is given. Get sequence of string representation of only odd integerList values and sort in ascending order.

**Code:**

**Task1:**

```
using System;
```

```
using System.Collections.Generic;
```

```
using System.Linq;
```

```
class Program
```

```

{
    static void Main(string[] args)
    {
        char C = 'a';
        string[] stringList = { "hello", "world", "dot", "net", "open", "ai" };

        var newStrings = stringList.Where(s => s.Length > 1 && s.First() == C &&
s.Last() == C);

        foreach (var s in newStrings)
        {
            Console.WriteLine(s);
        }

        Console.ReadKey();
    }
}

```

## **Task2:**

```

using System;
using System.Collections.Generic;
using System.Linq;

```

```

class Program
{
    static void Main(string[] args)
    {

```

```

string[] stringList = { "hello", "world", "dot", "net", "open", "ai" };

var stringLengths = stringList.Select(s => s.Length).OrderBy(i => i);

foreach (var length in stringLengths)
{
    Console.WriteLine(length);
}

Console.ReadKey();
}
}

```

### **Task3:**

```

using System;
using System.Collections.Generic;
using System.Linq;

class Program
{
    static void Main(string[] args)
    {
        string[] stringList = { "hello", "world", "dot", "net", "open", "ai" };

        var newStrings = stringList.Select(s => s.First().ToString() +
s.Last().ToString());
    }
}

```

```

        foreach (var s in newStrings)
        {
            Console.WriteLine(s);
        }

        Console.ReadKey();
    }
}

```

#### Task4:

```

using System;
using System.Collections.Generic;
using System.Linq;

class Program
{
    static void Main(string[] args)
    {
        int K = 3;
        string[] stringList = { "ABC1", "DEF2", "GHI3", "JKL4", "MN05", "PQR6",
                                "STU7", "VWX8", "YZ9" };

        var filteredStrings = stringList.Where(s => s.Length == K &&
char.IsDigit(s[K - 1]))
                                        .OrderBy(s => s);

        foreach (var s in filteredStrings)
        {
            Console.WriteLine(s);
        }

        Console.ReadKey();
    }
}

```

#### Task5:

```

using System;
using System.Collections.Generic;
using System.Linq;

class Program
{
    static void Main(string[] args)
    {
        int[] integerList = { 2, 5, 1, 8, 7, 3 };
    }
}

```

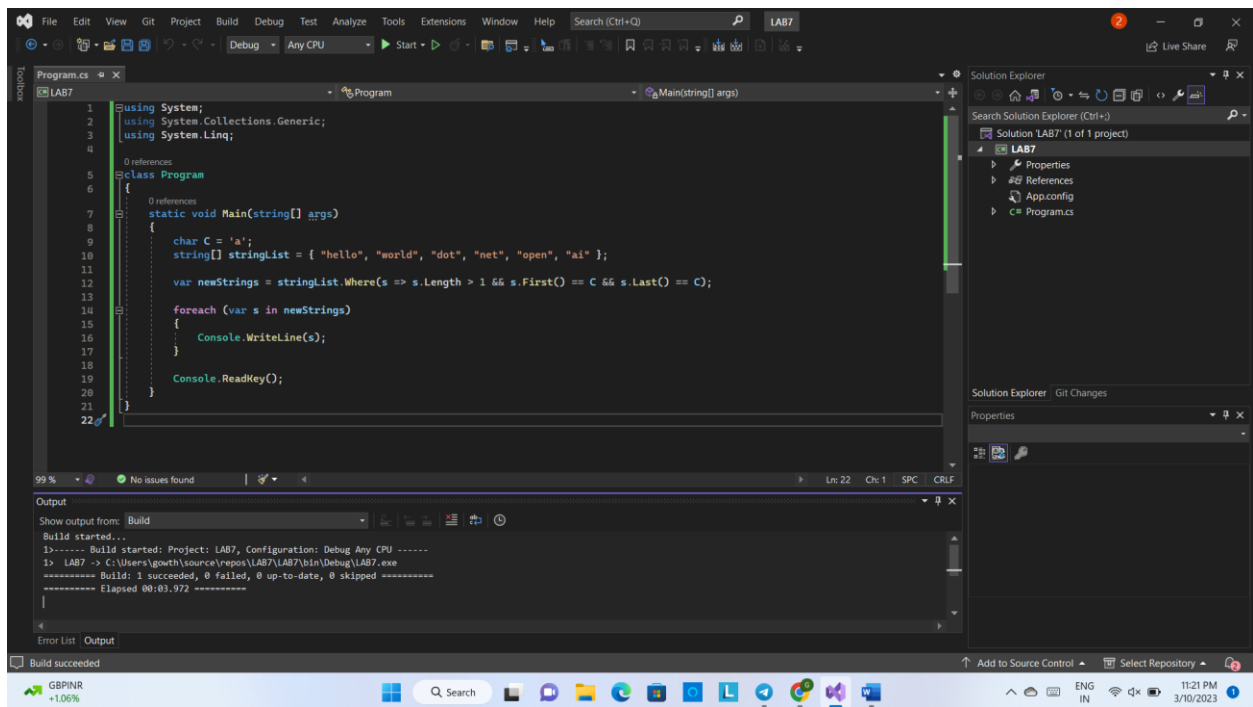
```
var oddStrings = integerList.Where(i => i % 2 != 0)
                              .Select(i => i.ToString())
                              .OrderBy(s => s);

foreach (var s in oddStrings)
{
    Console.WriteLine(s);
}

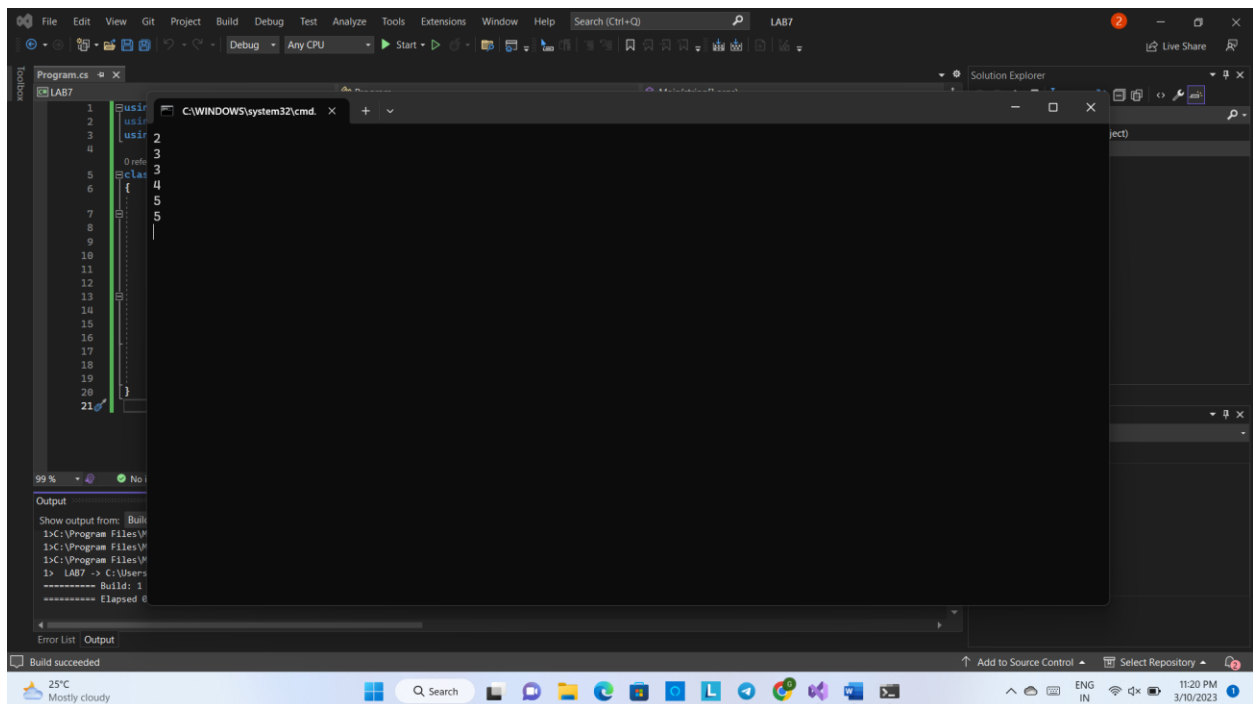
Console.ReadKey();
}
```

**Output:**

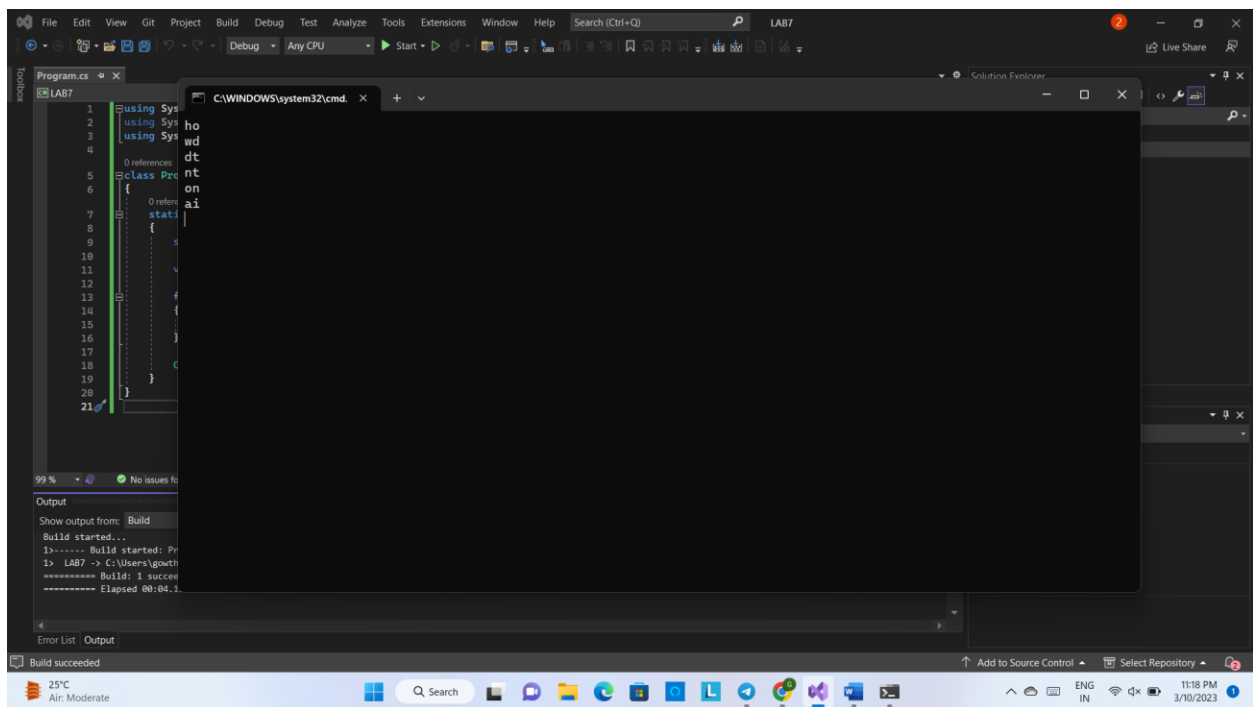
**Task1:**



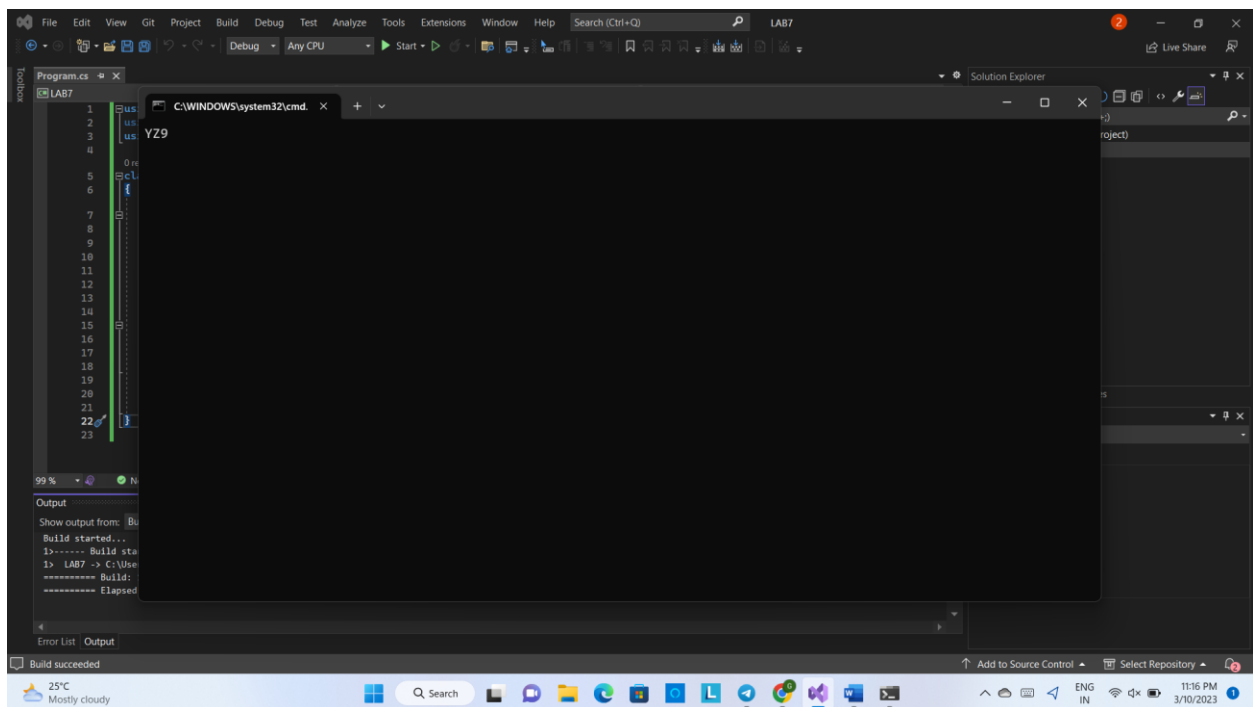
## Task2:



## Task3:



## Task4:



## Task5:

