```
using System;
using System.Collections.Generic;
namespace Ordered_List
  class OrderedList
     static void Main(string[] args)
       List<string> orderdList = new List<string>();
        Console.Write("Please enter a term or 'END' to terminate: ");
        string term = Console.ReadLine();
       while (term.ToUpper() != "END")
          term = term.ToLower();
          int insertPoint = 0;
          bool reject = false;
          for(int i = 0; i < orderdList.Count; i++)</pre>
             if (orderdList[i].IndexOf(term) != -1)
               Console.WriteLine("Similar term found: {0}", orderdList[i]);
             if (orderdList[i] == term) reject = true;
             if (orderdList[i].CompareTo(term) < 0)</pre>
                                                         insertPoint++;
          }
          if (!reject)
             orderdList.Insert(insertPoint, term);
          else
             Console.WriteLine("Term rejected");
          Console.WriteLine();
          Console.WriteLine("List:");
          for (int i = 0; i < orderdList.Count; i++) Console.WriteLine("\t{0}", orderdList[i]);</pre>
          Console.WriteLine();
          Console.Write("Please enter a term or 'END' to terminate: ");
          term = Console.ReadLine();
     }
  }
```

```
using System;
using System.Text.RegularExpressions;
namespace RegexTester
      class RegexTester
             static void Main(string[] args)
                    Regex regexTelephone = new Regex(@"\d{2}-\d{4}-\d{4}");
                    Regex regexCurrency = new Regex(@"^\sl = new Regex(@"^\sl = new Regex(@"^\$\d = new Regex(@"^\d = new Regex(@"\d = n
                    Regex regexAddress = new Regex(@"^\d+ \D+ \D+$");
                    Regex regexPasswordUppers = new Regex(@"[A-Z]");
                    // note that it is not possible to test any three from
                    Regex regexPasswordLowers = new Regex(@"[a-z]");
                   // four, in any order, without using multiple expressions
                    Regex regexPasswordNumbers = new Regex(@"[0-9]");
                    Regex regexPasswordSymbols = new Regex(@"[!@#$%^&*()]");
                    Console.Write("Please enter text to test or 'END' to finish: ");
                    string text = Console.ReadLine();
                    while (text.ToUpper() != "END")
                           bool noMatch = true;
                           if (regexTelephone.Match(text).Success)
                                 noMatch = false;
                                 Console. WriteLine ("The text appears to be a valid telephone number");
                           if (regexCurrency.Match(text).Success)
                                 noMatch = false;
                                 Console.WriteLine("The text appears to be a valid currency value");
                           if (regexAddress.Match(text).Success)
                                 noMatch = false;
                                 Console.WriteLine("The text appears to be a valid address");
                           }
```

```
int passwordCount = 0;

if (regexPasswordUppers.Match(text).Success) passwordCount++;
    if (regexPasswordLowers.Match(text).Success) passwordCount++;
    if (regexPasswordNumbers.Match(text).Success) passwordCount++;
    if (regexPasswordSymbols.Match(text).Success) passwordCount++;
    if (passwordCount >= 3)
    {
        noMatch = false;
        Console.WriteLine("The text appears to be a valid password");
    }
    if (noMatch)
        Console.WriteLine("The text does not appear to be anything in particular!");
        Console.Write("Please enter text to test or 'END' to finish: ");
        text = Console.ReadLine();
    }
}
```

Task 10.3

empty string

A string object that contains no characters/text, i.e., "".

null string

A string variable that does not refer to any string object, i.e., is set to a null value

regular expression

A sequence of characters and escape sequences that defines a pattern that can be matched to any textual value.

regular string literal

A string literal (textual value appearing in code) whose contents is checked/interpreted for escape sequences such as n, e.g., "a regular string literaln".

verbatim string literal

A string literal (textual value appearing in code) whose contents are not checked/interpreted for escape sequences, e.g., @"a backslash-n looks like \n".