```
// William Kelley
// LinqDemoClass.cs
// ITE365-Lab08

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

namespace LinqDemoApp
{
    class MainClass
    {
        public static void Main(string[] args)
        {
            var employees = new List<Employee>
            {
              new Employee( "Jason", "Red", 5000M ),
              new Employee( "Ashley", "Green", 7600M ),
              new Employee( "Matthew", "Indigo", 3587.5M ),
              new Employee( "James", "Indigo", 4700.77M ),
              new Employee( "Luke", "Indigo", 6200M ),
              new Employee( "Jason", "Blue", 3200M ),
              new Employee( "Wendy", "Brown", 4236.4M )
            } ; // end init list

            // display all employees
            Console.WriteLine("Original list:");
            foreach (var element in employees)
                Console.WriteLine(element);

            var between4k6k =
                from e in employees
                where e.MonthlySalary >= 4000M && e.MonthlySalary <= 6000M
                select e;
                        Console.WriteLine(string.Format(
                        "\nEmployees earning in the range {0:C}-{1:C} per month:",
                        4000, 6000));
                        foreach (var element in between4k6k)
                            Console.WriteLine(element);

            // order the employees by last name, then first name with LINQ
            var nameSorted =
                from e in employees
                orderby e.LastName, e.FirstName
                select e;
            // header
            Console.WriteLine("\nFirst employee when sorted by name:");
            // attempt to display the first result of the above LINQ query
            if (nameSorted.Any())
                Console.WriteLine(nameSorted.First());
            else
                Console.WriteLine("not found");


            // Display list of sorted names
            var sortNames =
                from e in employees
                orderby e.FirstName
                select e;
            Console.WriteLine("\nList of Names Sorted By First
Name");
            foreach (var element in sortNames)
                Console.WriteLine(element);
        }
    }
}
```

```
Original list:
Jason       Red         $5,000.00
Ashley      Green       $7,600.00
Matthew     Indigo      $3,587.50
James       Indigo      $4,700.77
Luke        Indigo      $6,200.00
Jason       Blue        $3,200.00
Wendy       Brown       $4,236.40

Employees earning in the range $4,000.00-$6,000.00 per month:
Jason       Red         $5,000.00
James       Indigo      $4,700.77
Wendy       Brown       $4,236.40

First employee when sorted by name:
Jason       Blue        $3,200.00

List of Names Sorted By First Name
Ashley      Green       $7,600.00
James       Indigo      $4,700.77
Jason       Red         $5,000.00
Jason       Blue        $3,200.00
Luke        Indigo      $6,200.00
Matthew     Indigo      $3,587.50
Wendy       Brown       $4,236.40

Press any key to continue...
```