CIS 262 Exercise 5 – EmployeeApp III

Change your earlier EmployeeApp as follows:

Part I

- Replace the array with a generic collection of type List<t>
- Replace the accumulator variables used to determine the total monthly and annual salaries for all employees with LINQ queries using the Sum extension method

```
All employees BEFORE raise
#   Name                      Monthly          Annual
--- --------------------- ------------- ---------------
1.  Tom Thompson              $1,100.00      $13,200.00
2.  Georgia Kenedy            $1,320.00      $15,840.00
3.  Pete Peterson             $1,188.00      $14,256.00
4.  Meredith Jones            $1,795.00      $21,540.00
5.  Jean Cummings             $1,716.00      $20,592.00
6.  Michael Robbins           $1,200.00      $14,400.00
7.  Polly Marks                   $0.00           $0.00

All employees AFTER raise
#   Name                      Monthly          Annual
--- --------------------- ------------- ---------------
1.  Tom Thompson              $1,210.00      $14,520.00
2.  Georgia Kenedy            $1,452.00      $17,424.00
3.  Pete Peterson             $1,306.00      $15,672.00
4.  Meredith Jones            $1,974.00      $23,688.00
5.  Jean Cummings             $1,887.00      $22,644.00
6.  Michael Robbins           $1,320.00      $15,840.00
7.  Polly Marks                   $0.00           $0.00

Total monthly salary: $9,149.00
Total annual salary: $109,788.00

Employees with salaries over $1,500.00/month
#   Name                      Monthly          Annual
--- --------------------- ------------- ---------------
1.  Meredith Jones            $1,974.00      $23,688.00
2.  Jean Cummings             $1,887.00      $22,644.00
```

Part II

- Replace the previous sequential search feature that uses a loop. Instead, display the result of a case insensitive search that uses a LINQ expression to return employees with names that begin with a specific search string. (Use the StartsWith method in the where clause of the LINQ expression. See p. 388.)
- Use the result of the search above together with the RemoveAt method to remove the first occurrence of an employee with a specified name. Include the index of the employee removed in a message, as shown below.

```
Results of search for employee name beginning with 'm'
#   Name                      Monthly          Annual
--- --------------------- ------------ ---------------
1.  Meredith Jones           $1,974.00      $23,688.00
2.  Michael Robbins          $1,320.00      $15,840.00


Employees after removing first occurance of employee name beginning with 'm' at index 3
#   Name                      Monthly          Annual
--- --------------------- ------------ ---------------
1.  Tom Thompson             $1,210.00      $14,520.00
2.  Georgia Kenedy           $1,452.00      $17,424.00
3.  Pete Peterson            $1,306.00      $15,672.00
4.  Jean Cummings            $1,887.00      $22,644.00
5.  Michael Robbins          $1,320.00      $15,840.00
6.  Polly Marks                  $0.00           $0.00
```

Part III

- Add yourself as an employee to the first position of the collection. Use an object initializer with name only.
- Add a static property named *RaisePercentage* with an initial value of 10% to the Employee class. Create a static method named *IncreaseRaise* that increases the raise percentage by 1%. Call the method after displaying the employees. Then give all employees a raise and display the new raise percentage and monthly salaries.

```
Employees before increasing raise from 10%
#   Name                      Monthly          Annual
--- --------------------- ------------ ---------------
1.  Tim Brown                   $0.00           $0.00
2.  Tom Thompson            $1,210.00      $14,520.00
3.  Georgia Kenedy          $1,452.00      $17,424.00
4.  Pete Peterson           $1,306.00      $15,672.00
5.  Jean Cummings           $1,887.00      $22,644.00
6.  Michael Robbins         $1,320.00      $15,840.00
7.  Polly Marks                 $0.00           $0.00


Employees after increasing raise to 11%
#   Name                      Monthly          Annual
--- --------------------- ------------ ---------------
1.  Tim Brown                   $0.00           $0.00
2.  Tom Thompson            $1,331.00      $15,972.00
3.  Georgia Kenedy          $1,597.00      $19,164.00
4.  Pete Peterson           $1,436.00      $17,232.00
5.  Jean Cummings           $2,075.00      $24,900.00
6.  Michael Robbins         $1,452.00      $17,424.00
7.  Polly Marks                 $0.00           $0.00
```