

Lab Four Instructions

Objective

The purpose of this lab is to practice using generic list classes.

Details

- i. Create a C# .NET Framework Console project named **COMP3602Lab04**.
- ii. Create a class named **Person** with three *automatic* properties for **FirstName**, **LastName** and **Age** (use appropriate data types). Implement *Comparable<T>* and implement the **CompareTo** method to sort on **LastName Asc** then **FirstName Asc**.
- iii. Create a list class named **PersonList** which inherits from **List<Person>**. Add the necessary constructor(s) to enable pre-sizing of the list.
Create *calculated* Properties for **TotalAge** and **AverageAge** (use appropriate data types).
- iv. Write code in the **Main** method to instantiate ten **Person** objects and add them to the **PersonList**. Sort the **PersonList** (you may copy and paste the code in the included text file to generate the data).
- v. Create a utility class and add a static method to produce output like this screenshot:



```
COMP3602 Lab04 A00999999
Last Name      First Name     Age
-----
Benes          Elaine         52
Costanza       George         53
Fine           Larry          61
Howard         Curley         58
Howard         Moe            63
Kingsley       Hank           61
Kramer         Cosmo          55
Sanders        Larry          57
Seinfeld       Jerry          55
Vandelay       Art            48
-----
Total Persons: 10
Total Age:     563
Average Age:   56.30
```

Please Hand In:

- 1) Zip your entire project and submit the zipped file to Lab04 in Learning Hub.



- 2) Lab is due by 11:59 pm on the day before next week's class.
- 3) Lab solution code will be available under Weel04\In Class once you have submitted.