Annalise Dake Programming Environments 8/23/17

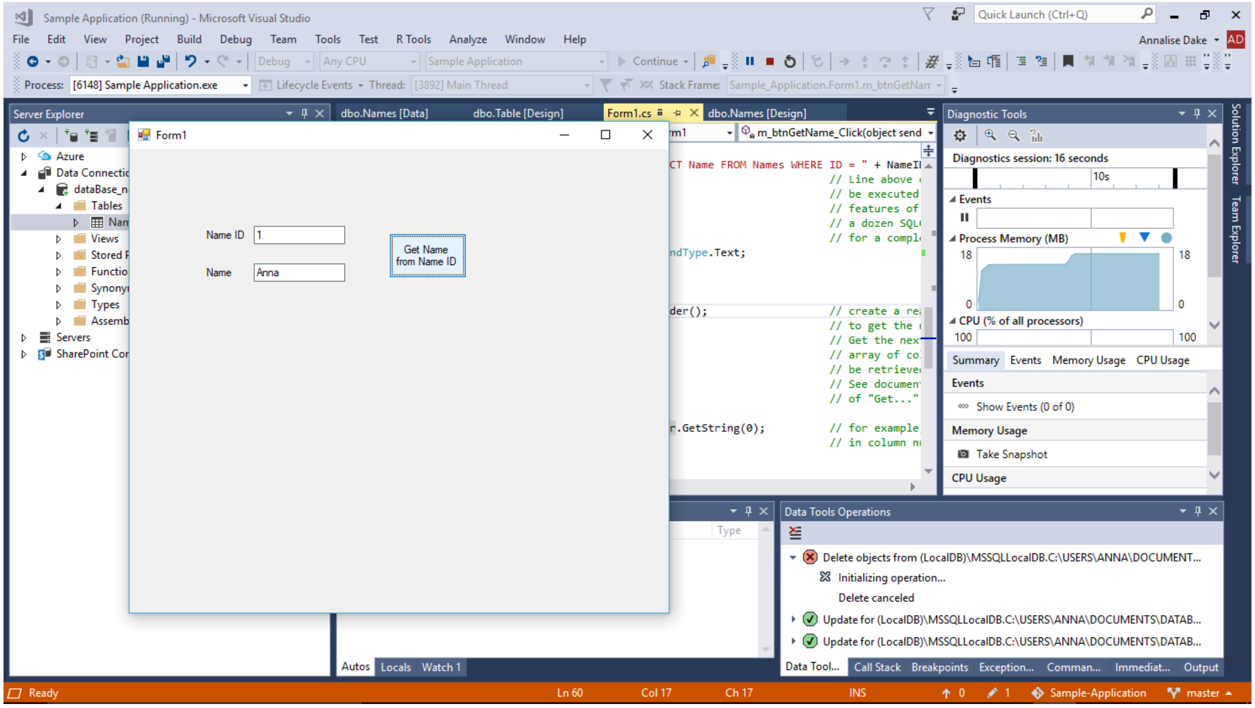
Work Environment Assignment

Introduction:

For this assignment, I was asked to set up a software development work environment for the rest of the course project. This environment includes Visual Studio Community Edition 2017, and a Github account. I was also asked to configure the GitHub extension for visual studio and create a repository for this course.

Narrative:

After all of this was complete, I then cloned the sample application from the specified GitHub repository, and executed and tested it. (below).



Name ID 1

Name Anna

```
CT Name FROM Names WHERE ID = " + NameII
                                         // Line above
                                         // be executed
                                         // features of
                                         // a dozen SQL
                                         // for a compl
ndType.Text;

der();                                   // create a rea
                                         // to get the
                                         // Get the nex
                                         // array of co
                                         // be retrieve
                                         // See documen
                                         // of "Get..."

r.GetString(0);                          // for example
                                         // in column nu
```

Delete objects from (LocalDB)\MSSQLLocalDB.C:\USERS\ANNA\DOCUMENT...

Initializing operation...

Delete canceled

Update for (LocalDB)\MSSQLLocalDB.C:\USERS\ANNA\DOCUMENTS\DATAB...

Update for (LocalDB)\MSSQLLocalDB.C:\USERS\ANNA\DOCUMENTS\DATAB...

Conclusion:

This assignment was relatively straight forward and didn't encounter too many issues. I did have an issue with testing the application because I had to connect the database, but other than that didn't have a problem.

My notes from class:

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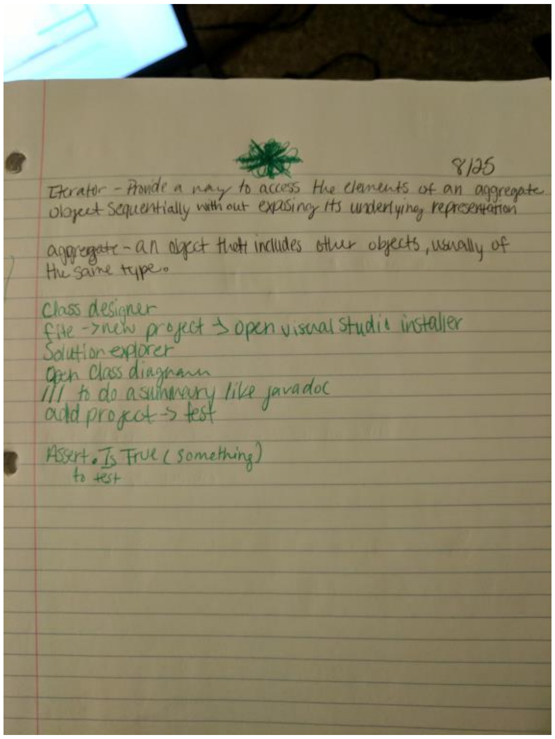


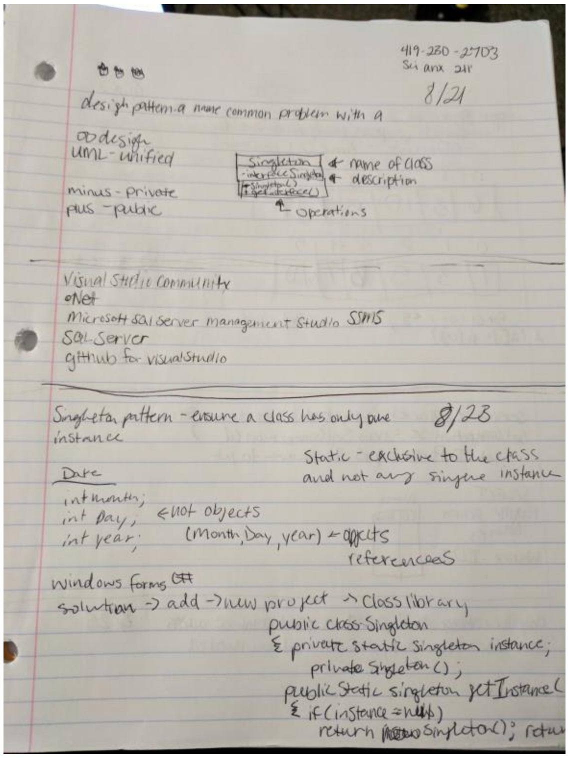
8/25

Iterator - Provide a way to access the elements of an aggregate object sequentially with out exposing its underlying representation

aggregate - an object that includes other objects, usually of the same type.

Class designer
file -> new project -> open visual studio installer
Solution explorer
Open Class diagram
/// to do a summary like javadoc
add project -> test

Assert.Is True (something)
to test



419-230-2703
Sci anx 211

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design pattern - a name common problem with a
OO design
UML - unified

minus - private
plus - public

Singleton
- interface Singleton

+ Singleton()
+ getInterface()

name of class
description
operations

Visual Studio Community
.Net
Microsoft Sql Server management Studio SSMS
SQL Server
github for visualStudio

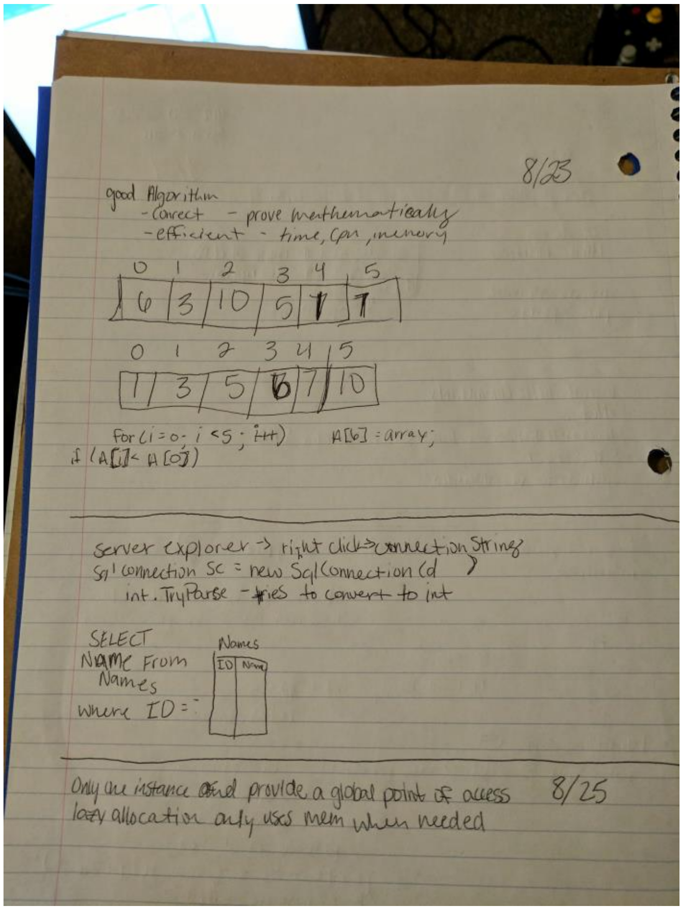
Singleton pattern - ensure a class has only one instance 8/28

Static - exclusive to the class and not any single instance

Date
int month;
int Day; ← not objects
int year; (Month, Day, year) ← objects
references

windows forms C#
solution -> add -> new project -> Class library

```
public class Singleton
{ private static Singleton instance;
    private Singleton();
  public Static singleton getInstance(
  { if(instance == null)
      return new Singleton(); retu
```



8/23

good Algorithm
- Correct - prove mathematically
- efficient - time, cpu, memory

0	1	2	3	4	5
6	3	10	5	1	7

0	1	2	3	4	5
1	3	5	6	7	10

```
  For (i = 0; i < 5; i++)      A[6] = array;
if (A[i] < A[0])
```

server explorer -> right click -> connection String
Sql connection sc = new SqlConnection (cl)
int. TryParse - tries to convert to int

SELECT
Name From
Names
where ID = "

Names

ID	Name

Only one instance and provide a global point of access 8/25
lazy allocation only uses mem when needed