C:\Program Files (x86)\Microsoft Visual Studio 14.0>cd "C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer"

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer>compile.bat

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer>devenv TypeBasedDepAnalyzer.sln /rebuild debug

Microsoft Visual Studio 2015 Version 14.0.25420.1.

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1>------ Rebuild All started: Project: Convert, Configuration: Debug Win32 ------

2>------ Rebuild All started: Project: CppProperties, Configuration: Debug Win32 ------

3>------ Rebuild All started: Project: XmlDocument, Configuration: Debug Win32 ------

4>------ Rebuild All started: Project: Cpp11-BlockingQueue, Configuration: Debug Win32 ------

3> XmlDocument.cpp

4> Cpp11-BlockingQueue.cpp

2> CppProperties.cpp

1> Convert.cpp

3> XmlParser.cpp

2> CppProperties.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\CppProperties.lib

4> Cpp11-BlockingQueue.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\Cpp11-BlockingQueue.lib

5>------ Rebuild All started: Project: Parser, Configuration: Debug Win32 ------

1> Convert.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\Convert.lib

6>------ Rebuild All started: Project: ScopeStack, Configuration: Debug Win32 ------

6> ScopeStack.cpp

7>------ Rebuild All started: Project: Tokenizer, Configuration: Debug Win32 ------

7> Tokenizer.cpp

6> Utilities.cpp

7> Utilities.cpp

6> Logger.cpp

7> Generating Code...

7> Tokenizer.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\Tokenizer.lib

5> Parser.cpp

3> XmlElement.cpp

3> xmlElementParts.cpp

3> Tokenizer.cpp

5> ConfigureParser.cpp

3> Generating Code...

8>------ Rebuild All started: Project: SemiExp, Configuration: Debug Win32 ------

6> Generating Code...

8> SemiExp.cpp

5> ActionsAndRules.cpp

6> ScopeStack.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\ScopeStack.lib

8> Utilities.cpp

9>------ Rebuild All started: Project: FileMgr, Configuration: Debug Win32 ------

9> FileMgr.cpp

8> Tokenizer.cpp

5> Utilities.cpp

8> Generating Code...

9> FileSystem.cpp

5> Tokenizer.cpp

8> SemiExp.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\SemiExp.lib

10>------ Rebuild All started: Project: Logger, Configuration: Debug Win32 ------

10> Logger.cpp

5> SemiExp.cpp

9> Generating Code...

9> FileMgr.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\FileMgr.lib

5> ScopeStack.cpp

5> Logger.cpp

11>------ Rebuild All started: Project: Utilities, Configuration: Debug Win32 ------

10> Utilities.cpp

11> Utilities.cpp

10> Cpp11-BlockingQueue.cpp

5> GrammarHelpers.cpp

11> Utilities.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\Utilities.lib

10> Generating Code...

12>------ Rebuild All started: Project: AbstractSyntaxTree, Configuration: Debug Win32 ------

12> AbstrSynTree.cpp

5> FileSystem.cpp

10> Logger.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\Logger.exe

10> Logger.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\Logger.pdb (Full PDB)

13>------ Rebuild All started: Project: FileSystem, Configuration: Debug Win32 ------

12> Utilities.cpp

13> FileSystem.cpp

5> AbstrSynTree.cpp

12> Logger.cpp

5> Generating Code...

13> FileSystem.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\FileSystem.lib

14>------ Rebuild All started: Project: GrammarHelpers, Configuration: Debug Win32 ------

12> Generating Code...

14> GrammarHelpers.cpp

3> XmlDocument.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\XmlDocument.lib

12> AbstractSyntaxTree.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\AbstractSyntaxTree.lib

15>------ Rebuild All started: Project: TypeAnalysis, Configuration: Debug Win32 ------

16>------ Rebuild All started: Project: TypeTable, Configuration: Debug Win32 ------

15> TypeAnal.cpp

16> TypeTable.cpp

14> Utilities.cpp

5> Parser.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\Parser.exe

5> Parser.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\Parser.pdb (Full PDB)

14> Tokenizer.cpp

17>------ Rebuild All started: Project: DependencyAnalysis, Configuration: Debug Win32 ------

14> SemiExp.cpp

17> DepAnal.cpp

15> TypeAnalysis.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\TypeAnalysis.lib

16> TypeTable.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\TypeTable.lib

18>------ Rebuild All started: Project: NoSqlDb, Configuration: Debug Win32 ------

14> Logger.cpp

19>------ Rebuild All started: Project: StrongComponents, Configuration: Debug Win32 ------

14> Generating Code...

19> Graph.cpp

18> Test.cpp

19> StrongComponents.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\StrongComponents.exe

19> StrongComponents.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\StrongComponents.pdb (Full PDB)

17> DependencyAnalysis.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\DependencyAnalysis.lib

14> GrammarHelpers.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\GrammarHelpers.lib

18> NoSqlDb.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\NoSqlDb.lib

20>------ Rebuild All started: Project: CodeAnalyzer, Configuration: Debug Win32 ------

20> Executive.cpp

20> Utilities.cpp

20> Tokenizer.cpp

20> SemiExp.cpp

20> ScopeStack.cpp

20> Parser.cpp

20> ConfigureParser.cpp

20> ActionsAndRules.cpp

20> Logger.cpp

20> GrammarHelpers.cpp

20> FileSystem.cpp

20> FileMgr.cpp

20> AbstrSynTree.cpp

20> Generating Code...

20> Executive.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\CodeAnalyzer.lib

21>------ Rebuild All started: Project: TestExec, Configuration: Debug Win32 ------

21> TestExec.cpp

21> Utilities.cpp

21> TypeTable.cpp

21> Tokenizer.cpp

21> SemiExp.cpp

21> ScopeStack.cpp

21> Parser.cpp

21> ConfigureParser.cpp

21> ActionsAndRules.cpp

21> Logger.cpp

21> GrammarHelpers.cpp

21> FileSystem.cpp

21> FileMgr.cpp

21> AbstrSynTree.cpp

21> Generating Code...

21> TestExec.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\TestExec.exe

21> TestExec.vcxproj -> C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug\TestExec.pdb (Full PDB)

========== Rebuild All: 21 succeeded, 0 failed, 0 skipped ==========

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer>run.bat

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer>cd Debug

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug>TestExec.exe ../MyTestFiles/ \*.h \*.cpp /r

Welcome to My Type Based Dependency Analyzer

============================================

CodeAnalysis

==============================================================================================

Tue Mar 7 16:54:30 2017

Path: "C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\"

Args: \*.h, \*.cpp, /r

searched 1 dirs

processed 8 files

Requirement # 1

===============

Using Visual Studio 2015 and its C++ Windows Console Projects, as provided in the ECS computer labs

Requirement # 2

===============

Using the C++ standard library's streams for all I/O and new and delete for all heapbased memory management

Requirement # 3

===============

Provided packages as described in Purpose section enforcing "Single Responsiblity Principle"

Requirement # 4

===============

Provided a TypeAnalysis package that identifies all of the types defined in a specified file.

-------------------------------------------------------------------------

Type analysis started ....

-------------------------------------------------------------------------

---------------------------------------------------------------------------------------------------------------------

TYPE TABLE:

---------------------------------------------------------------------------------------------------------------------

Type name Type Namespace Filename

------------------- ------------------- ------------------- -------------------

A class Ans C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

A struct Ans C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

A2 class Ans2 C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

A3 class Global Namespace C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

Aenum enum Ans C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

Ans namespace Ans C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

Ans2 namespace Ans2 C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

Atypedef typedef Ans C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

Ausing using Ans C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

B class Bns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

B1 class Global Namespace C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

B2 struct Global Namespace C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

Bcpp class Global Namespace C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.cpp

Benum enum Bns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

Bns namespace Bns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

Btypedef typedef Bns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

Busing using Bns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

C class Cns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

C1 struct Global Namespace C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

C1 class Global Namespace C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

Cenum enum Cns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

Cns namespace Cns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

Ctypedef typedef Cns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

Cusing using Cns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

D class Dns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.h

D1 class Global Namespace C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.h

Denum enum Dns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.h

Dns namespace Dns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.h

Dtypedef typedef Dns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.h

Dusing using Dns C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.h

globalFunctA function Global Namespace C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

globalFunctB function Global Namespace C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

Requirement # 5

===============

Provided a DependencyAnalysis package that identifies all of the dependencies between files in a specified file collection.

-------------------------------------------------------------------------

Dependency analysis started ....

-------------------------------------------------------------------------

---------------------------------------------------------------------------------------------------------------------

DEPENDENCIES:

---------------------------------------------------------------------------------------------------------------------

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.cpp:

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.cpp:

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h:

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.cpp

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.cpp:

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.cpp:

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.h

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h:

->C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

Requirement # 6

===============

Finding strong components in the dependency graph defined by the relationships evaluated in the previous requirement

-------------------------------------------------------------------------

Constructing Graph from Dependency Analysis results ...

-------------------------------------------------------------------------

vertex id = 0, value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.cpp

edge points to vertex with id = 1 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h, edge value = 1

edge points to vertex with id = 3 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h, edge value = 2

vertex id = 1, value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

vertex id = 2, value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.cpp

edge points to vertex with id = 3 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h, edge value = 3

edge points to vertex with id = 5 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h, edge value = 4

vertex id = 3, value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

edge points to vertex with id = 1 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h, edge value = 5

edge points to vertex with id = 2 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.cpp, edge value = 6

vertex id = 4, value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.cpp

edge points to vertex with id = 1 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h, edge value = 7

edge points to vertex with id = 5 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h, edge value = 8

vertex id = 5, value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

edge points to vertex with id = 3 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h, edge value = 9

vertex id = 6, value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.cpp

edge points to vertex with id = 1 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h, edge value = 10

edge points to vertex with id = 7 and value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.h, edge value = 11

vertex id = 7, value = C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.h

-------------------------------------------------------------------------

Strong Component Analysis started ...

-------------------------------------------------------------------------

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.h

-------------------------------------------

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.h

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.cpp

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\B.h

-------------------------------------------

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\A.cpp

-------------------------------------------

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\C.cpp

-------------------------------------------

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.h

-------------------------------------------

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\MyTestFiles\\D.cpp

-------------------------------------------

Please Check ../DependencyAndStrongComponents.png

Requirement # 7

===============

Write the analysis results, in XML format, to a specified file.

Storing Dependencies in NoSqlDb

Writing analysis results in default XML file..

Please check "../Xmlfile.xml" for Results

Requirement # 8

===============

Processing the command line, accepting:

-> Path to the directory tree containing files to analyze

-> List of file patterns to match for selection of files to analyze

-> Specification of the XML results file, supplying a default file

This Test Executive processes command line arguments with file patterns to match for selection of files

The XML results are stored in default file "../Xmlfile.xml"

Requirement # 9

===============

Include an automated unit test suite that demonstrates meeting all the requirements of this project

We are in a Automated unit Test Suite !!!!

C:\Users\rahul 3\Desktop\TypeBasedDepAnalyzer\Debug>