

Level:0 C++ Revision

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- Folder “Run Project” contains Level_Zero_Revision.exe file. Run it on command prompt to see the console application.
- Folder “Source Codes” contains 3 files: main.cpp, dsfunctions.h, and dsfunctions.cpp
- main.cpp = The main source file of project.
- dsfunctions.h = User defined header file included in project.
- dsfunctions.cpp = Logical definitions of dsfunctions.h functions.
- IDE used for project development = Visual Studio 2019

Concepts Demonstrated:

- Prepare a program covering the basic concepts of C++
- Thread
- Polymorphism
- Input/Output Files Txt/Json/XML
- Exception Handling
- Data Structure - Queue/Linkedlist/Vector/Arrays
- Inheritance
- Logging Mechanism
- Header files
- Constructor/Destructor

External Libraries Installed:

- Boost = For Logging mechanism and XML file parsing. Installed using NuGet Package manager console in Visual Studio.
- json/json.h = For parsing of JSON files. Installed from a github source.

References:

[1] Logging Mechanism

<https://www.scalyr.com/blog/getting-started-quickly-c++-logging>

[2] Text files

https://www.w3schools.com/cpp/cpp_files.asp

[3] JSON files

https://subscription.packtpub.com/book/application_development/9781785286902/1/ch01lv11sec12/reading-and-writing-json-in-c

<https://www.youtube.com/watch?v=GYauneigGTs>

[4] XML Files

<https://stackoverflow.com/questions/5415788/read-write-xml-file-in-c>

<https://www.youtube.com/watch?v=LeMEeJeY9KY>

<https://www.youtube.com/watch?v=4uaCD9VBWwY>

[5] Header Files

<https://www.geeksforgeeks.org/header-files-in-c-cpp-and-its-uses/>

<https://docs.microsoft.com/en-us/cpp/cpp/header-files-cpp?view=msvc-160>

[6] STL Functions and DS

<https://www.geeksforgeeks.org/deque-cpp-stl/>

<https://www.geeksforgeeks.org/list-cpp-stl/>

<https://www.geeksforgeeks.org/stdreverse-in-c/>

<https://www.geeksforgeeks.org/sort-algorithms-the-c-standard-template-library-stl/>