**CSCI 552**

**Project #2 README**

Requirements:

* Microsoft Visual Studio 2017
* CMake 3.9.6
* VTK 8.1.0

Submitted Files:

* prem.cxx (source file)
* CMakeLists.txt (source file)
* prem.exe (executable file)

1. Make sure Visual studio, CMake and VTK installed and synchronized each other perfectly.
2. Create a “src” folder and put source files in it. i.e prem.cxx and CMakeLists.txt
3. Create a “build” folder and make sure it is empty.
4. Open CMake-gui desktop app.
5. Give folder path of “src” to “where is the source code” in CMake-gui app.

Example: path = C:/…../Project2/src

1. Give folder path of “build” to “where to build the binaries”
2. Click **configure**
3. After successful configure, you will notice **Configuring done**, then Click **Generate**
4. After successful Generating, you will notice **Generating done**
5. Files are generated in “build” folder. You will find “**prem.sln**” in it. Double Click on it. it will lead you to Visual Studio.
6. After successful installation and scanning of files, it will show **Ready** in bottom-left corner. Then Right click on **ALL\_BUILD** and click on **Build.**
7. After successful build, you will notice **Debug** folder in **“build”** folder containing three files namely prem.exe, prem.dil and prem.pdb. Open Debug folder and put the “ironProt.vtk” in it.
8. Copy all .**dil** and .**pdb** files in **….\VTK\bin\bin\Debug** (these files are created while installing VTK through CMake)
9. Paste those files in **….\build\Debug** i.e debug folder created in build containing prem.exe and ironProt.vtk
10. Open command prompt navigate to build folder containing executable file.

Example: cd C:\.....\Project2\build\Debug

1. Run the executable file in command prompt passing image name as arguments.

Example: > prem.exe ironProt.vtk