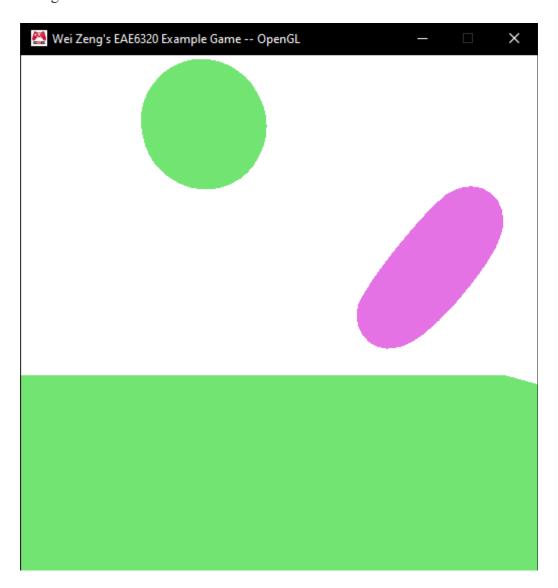
Assignment 7 Writeup

Game Executable:

https://github.com/WayGold/EAE6320_Assignments/blob/Assignment07/MyGame_.zip Game running:



(Game Running)

```
🙀 File Edit <u>V</u>iew <u>G</u>it <u>P</u>roject <u>B</u>uild <u>D</u>ebug Te<u>s</u>t A<u>n</u>alyze <u>T</u>ools Extensions <u>W</u>indow <u>H</u>elp Search (Ctrl+Q)
                📤 💾 🛂 🖫 🧏 🤚 🗸 🗎 Release
                                                                                 cRenderState.h
                                     EntryPoint.cpp 💠 🗙 cMayaMeshExporter.h
                   cMyGame.cpp
                                                                                 cMayaMeshExporter.cpp
                                                                                                               AssetsToBuild.lua
🛂 MayaMeshExporter
                                                (Global Scope)
                                                                                          → Ø initializePlugin(MObject io_object)
          □#include "cMayaMeshExporter.h"
           #include <maya/MGlobal.h>
           #include <maya/MStatus.h>
          #include <maya/MString.h>
               constexpr auto* const s_pluginName = "Wei's EAE6320 Mesh Format"
          #ifdef _DEBUG
          □__declspec(dllexport) MStatus initializePlugin( MObject io_object )
                // Create a plugin function set
              MFnPlugin plugin( io_object );
               MStatus status:
                   constexpr auto* const noIcon = "none";
                   if ( !( status = plugin.registerFileTranslator( s_pluginName, noIcon,
                       eae6320::cMayaMeshExporter::Create ) ) )
                       MGlobal::displayError( MString( "Failed to register mesh exporter: " ) + status.errorString() );
               return status;
```

(Debug plugin)

I didn't add any reference to MayaMeshExporter as it has nothing to do with graphics or any other projects in the solution. Nor did I add it as dependencies for others since it builds a tool for an external software so it's a different workflow from building our engine. I only exported vertices and indices as that's all I need at this point. Since we are storing vertex count using a uint16_t, we could at max store 65535 as the value. For overflow conditions, I swap the mesh using a block to represent an error when loading the input mesh.