심화전공실습 1

#05. 3D Programming

Self-scoring table

	P1	P2	Р3	E1	E2	Total
Score	1	1	1	0	0	3

이름 최영찬

학번 2016603042

학과 수학과

제출일 2020.10.07.

목차

1.Practice

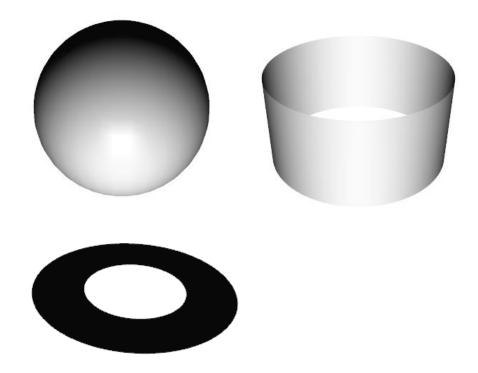
- Draw OpenGL quadric objects: sphere, cylinder, disk
- Polygon fill on/off
- Read/draw a bunny model using points

2.Exercise

- Extract all the edges and print # of edges of a bunny model
- Draw the extracted edges using lines

Practice

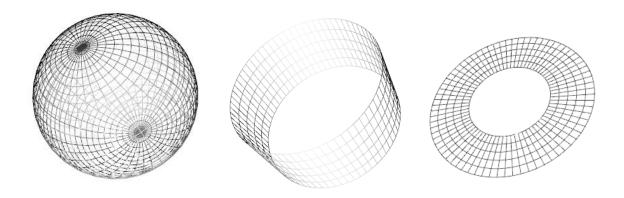
1. Draw OpenGL quadric objects: sphere, cylinder, disk



1을 누르면 sphere, 2를 누르면 cylinder, 3을 누르면 disk 가 나온다.

2. Polygon fill on/off

Polygon Off 상태



F를 누르면 on/off 할 수 있다.

3. Read/draw a bunny model using points



```
readMesh("m01_bunny.off");

cout << endl;
cout << "keyboard Input: d for depth test on/off" << endl;
cout << "keyboard Input: f for polygon fill on/off" << endl;
cout << endl;
cout << "Keyboard Input:1 for sphere" << endl;
cout << "Keyboard Input:2 for cylinder" << endl;
cout << "Keyboard Input:3 for Disk" << endl;
cout << "Keyboard Input:4 for bunny" << endl;</pre>
```

readMesh 에서 bunny를 읽도록 한다.

그리고 4 번을 누르면 나오도록 한다.

1. Extract all the edges and print # of edges of a bunny model

readMesh에서

#include<list>

list<int> edge1;

linked list 를 이용하여 edge 를 extract 하려 했으나 구현하지 못했습니다.

2. Draw the extracted edges using lines