

1 Display multiple 3D models with textures. [5 pt]

- 1.1 Load **three** different 3D (low-polygonal) models from OBJ files.
- 1.2 Apply a different texture for each model.
- 1.3 Do **not** use simple primitives such as cube, cylinder, pyramid, sphere, etc.
- 1.4 Self-rotate(자전) each model continuously against the up (y) axis at different positions.
- 1.5 All models should be displayed without **any hole**.

2 Display a ground plane with a texture. [2 pt]

- 2.1 Create a plane model by loading from an OBJ file or specifying vertices.
- 2.2 Find and apply a **patterned** image for a texture.
- 2.3 Set up the camera such that the plane represents a ground with horizon.

3 Display two filtering effects using keyboard inputs. [3 pt]

- 3.1 **3, 4**: show the linear and anisotropic filter mode
- 3.2 The visual differences should be **clearly** displayed between two modes.

• **Implementation requirements**

- ✓ The program should be executed in a **x86 (32-bit) Release** mode.
- ✓ The framework classes can be modified but **cannot** be deleted.
- ✓ All implemented functions should be executed from the **same** program.

• **Submission instruction**

- ✓ 프로그램 build에 필요 없는 폴더(Debug, Release, ipch) 및 파일(*.db)은 모두 삭제.
(*폴더 보기 → 표시 → 숨김 항목 → .vs 폴더 → ipch 폴더 및 *.db 파일 삭제)
- ✓ 필요한 설명이 있으면 "readme.txt"에 기술.
- ✓ 프로젝트 폴더 전체를 압축(ZIP, 제한: 20MB) 후 Classroom에 제출 (*E-mail로 받지 **않음**).

• **Cautions**

- ✓ **Visual Studio 2022 (DirectX 11)**에서 source code가 build 안되거나, 프로그램 실행이 안되면 **0점** 처리.
- ✓ Source code의 copy시 원본 제공자와 복사자 모두 **0점** 처리.
- ✓ 제출 시간 지나면 **0점** 처리.