



Qatar University

College of Engineering

Department of Computer Science and Engineering

Computer Graphics HW#1 (Fall 2021)

Course

Name, ID, Section: Computer Graphics CMPS 373

Instructor Name: Dr Osama Halabi

HW Info

Due: Sep. 17, 2021 (Fri)
(end of the day)

Grade: 100 marks

100

Student

Student Name:

Student ID:

SUBMISSION INSTRUCTION

Create a blank solution and inside create one project for your homework. **Submit the whole homework solution folder in one zip file.**

Before creating the zip file for your solution go to Build -> Clean Solution to remove linking files.

All programming projects should follow the same file organization used in the lectures. Therefore, all the following items are expected to be included:

1. all C++ source (.cpp) files (in \src)
2. all C++ executable (.exe) files (in \bin)
3. all libraries and headers files (in \common)
4. ~~all shader source (GLSL) files (in \shaders)~~
5. ~~all necessary supporting files such as models, textures, cube maps, normal/height maps~~
6. a "readme" file describing your program, including the items listed below:
 - a. a screen capture of your running program.
 - ~~b. a list of required items that you were not able to complete.~~
 - ~~c. citation and copyright permission information for all elements used by your program.~~
7. you **have to set the title of the window to the homework number and your name. For example, "CG HW1 Osama Halabi"**.
8. This is an **individual work** and the submitted work must represent your **own thinking and efforts**. Copying the work of others will not be tolerated. Similarity will be investigated and zero grade for all parties involved will be assigned.
9. Submit before the due date.

Question 1 [100 Marks]

Draw two triangles with different colors as can be seen in the image below.

- Yellow (1.0, 1.0, 0.0)
- Cyan (0.0, 1.0, 1.0)
- Blue (0.0, 0.0, 1.0)

[HINT: use separate vertex buffer object and vertex array object to draw each triangle].

Output:

