## **Assignment 1: Surface Normal Calculation**

- 1. Normal array should have the size of a vertex array.
- 2. Normal is a vec3
- 3. An example has been uploaded (under module week 3) that shows how to calculate normals for a cube. Each vertex of a face has the same normal, i.e., normal of the face.

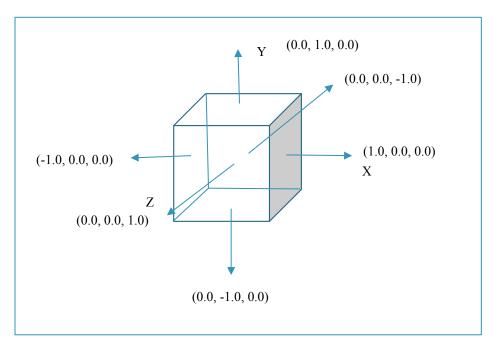


Figure 1: Direction of normals for different faces of a cube.

## Normal Calculation for a Cone

// Per vertex normal calculation. Suppose you already have the index array for the cone.

## // Calculation of normal for a sphere:

This is the easiest one. For a sphere with its center at origin, any point on the surface of the sphere represents the direction of the normal. But you need to normalize the normal.