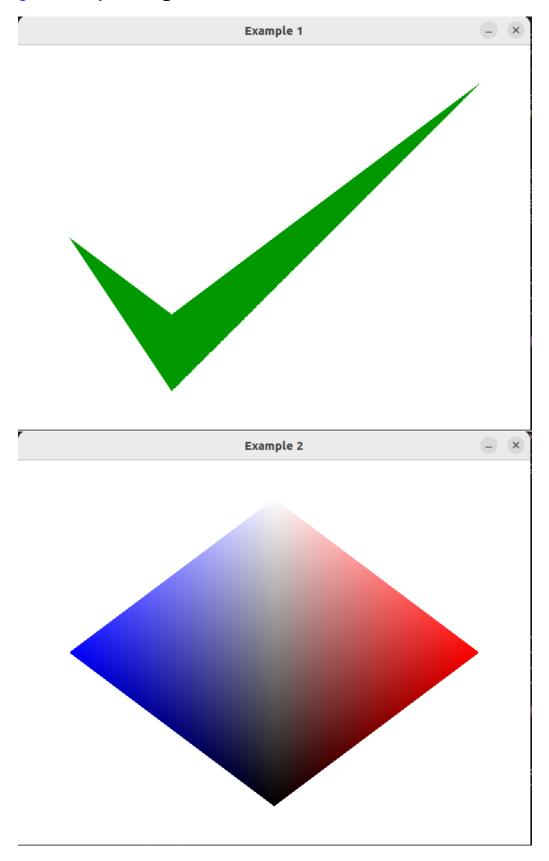
COL781

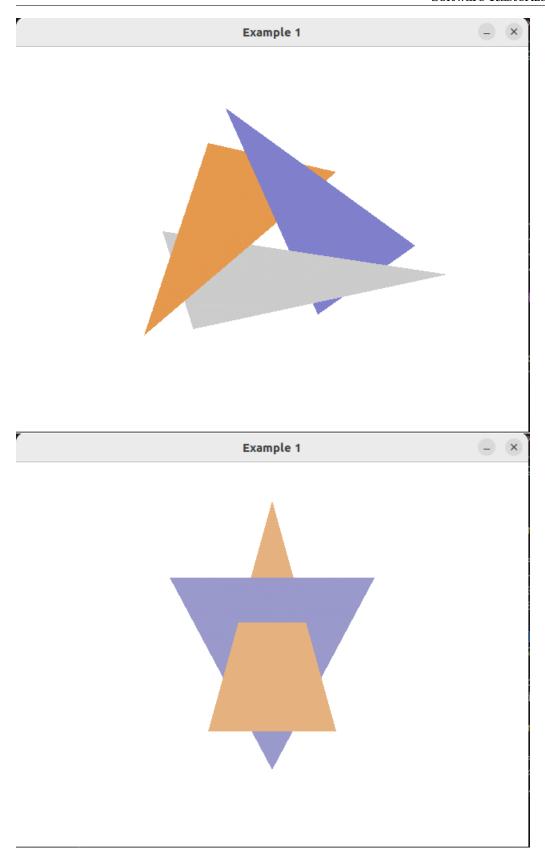
ASSIGNMENT 1 February 6, 2024

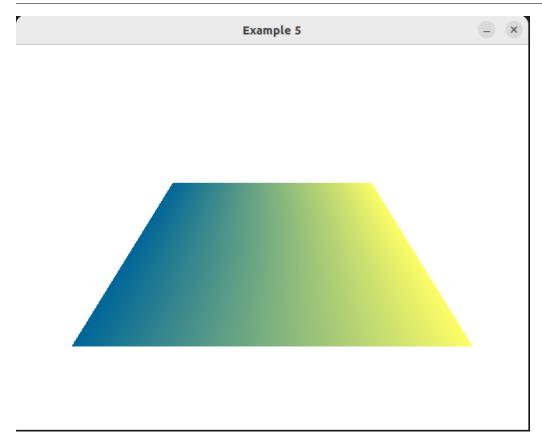


Tanish Singh Tak (2020EE10560)Parth Patel (2021CS10550)

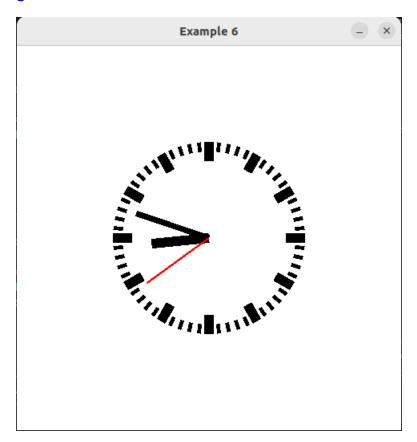
§1 Example Program SS



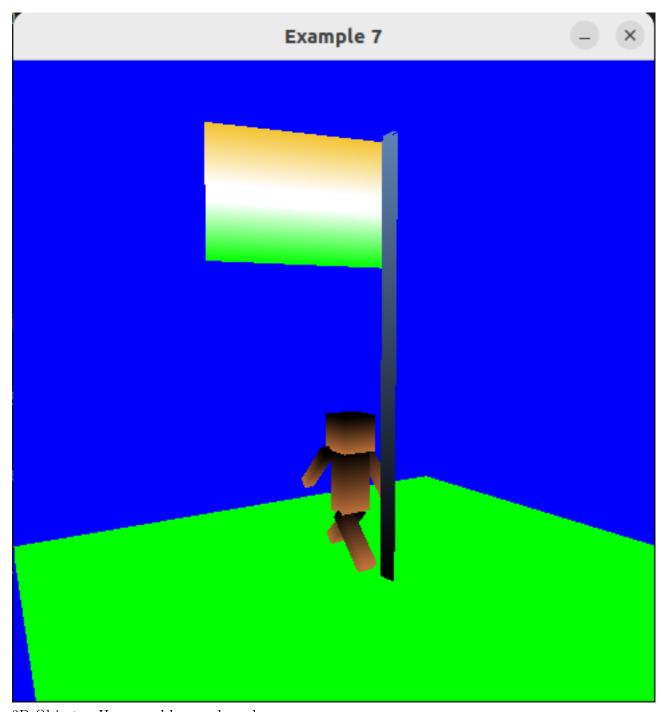




§2 Clock



§3 Scene



3D Objects - Hexagonal base pole and a person.

§4 Highlights

• We modified the rasterizer class as follows -

```
class Rasterizer {
public:
#include "api.inc"
  private:
      SDL_Window *window;
      SDL_Surface *framebuffer;
      bool quit;
      ShaderProgram rasterizerProgram;
      int supersampling_n;
      std::vector<std::vector<float>> zbuffer;
      bool zbuffering;
  };
```

- We implemented all the APIs in api.inc file along with a Vertex Shader vsColorTransform()
- We added the support for supersampling, depth testing, perspective correct interpolation