

Group Project	CPIT285
BB Group Number	Group 4
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Project Title
DRAWING CANVAS
Project Description
<p>This project is about drawing a polygon in 3D environment. We added sound for each click of Space Key and interface. In addition, it require user interaction with keyboard to be able to start drawing.</p> <p>Function of each keyboard key are:</p> <p>x: To start the drawing program</p> <p>Key-Right: To move 3D sphere to the right</p> <p>Key-Left: To move 3D sphere to the left</p> <p>Key-Up: To move 3D sphere forward</p> <p>Key-Down: To move 3D sphere backward</p> <p>q: To move 3D sphere Up</p> <p>z : To move 3D sphere DOWN</p> <p>a: To move Camera LEFT</p> <p>w: To move Camera UP</p> <p>s: To move Camera DOWN</p> <p>d: To move Camera RIGHT</p> <p>o: To zoom in</p> <p>p: To zoom out</p> <p>r: To change Polygon color to RED</p> <p>y: To change Polygon color to YELLOW</p> <p>g: To change Polygon color to GREEN</p> <p>b: To change Polygon color to BLUE</p> <p>v: To change Polygon color to WHITE</p>

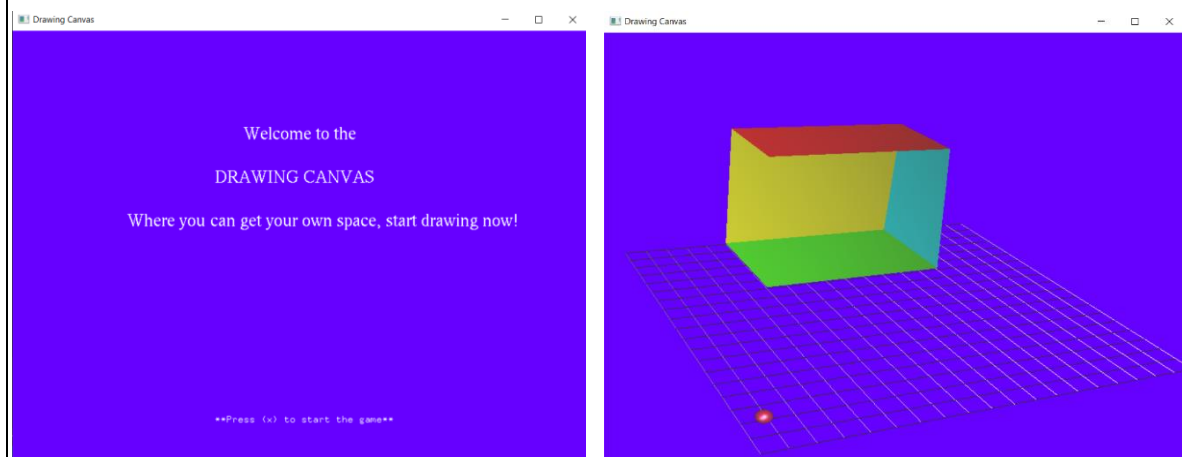
(Space Key): To add a polygon point

L: To enable Lighting

l: To disable Lighting

Here is a link provided to download the video about explaining our project [<https://drive.google.com/file/d/1tu8P-6ba0Yv47WepK9cLehJZdjg3PuZe/view?usp=sharing>]

Project screenshot



Project Items	Verification	For instructor
Use of OpenGL/C++	Yes	
Contain 2D/3D objects	Yes	
Ability to Interact	Yes	
Animations	Yes	
Apply light effects	Yes	
View	Yes	
Interface	Yes	
Sound	Yes	
Total mark\		