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## program 10

With a program to chate a color cube and spinit using Opents L transformations.

#melude < std196.17

Findlede Callguitan>

#include 291/92. hy

#Include < g1 (GLUT. h)

# include (Home. h)

6 L float varaa ( ] = 2 -1.0, -1.0, -1.0, -1.0, -1.0, -1.0, -1.0, -1.0, -1.0, -1.0, -1.0

61 foat normals (] = d - 1.0, -1.0, -1.0, 1.0, -1.0, -1.0, 1.0, 1.0, -1.0, -1.0, 1.0, 1.0;

GLUBYTE cube To dices [7 = 40,3,2,1,2,3,7,6,0,4,7,3,1,2,6,,4,5, 6,7,0,1,5,44;

static Giftoat thual] = 40.0,0.0,0.0); Static Giftoat betall = 40.0,0.0,0.0; static Gint anu = 2;

```
void delay (float sees)
4
     float ond = clockes/clocks- PFR=SEC+seus
     While [Lelocres/clocks-per-sec) and);
  Ý
void desplaysingle (void)
   ď
       glClcar(GL-COLOP-BUFFER-BIT/GL-DEPTH-BUFFER-$25);
        9 Load Edertity 19;
        9 [ Rolare ( thela [0], 1.0, 0.0, 0.0);
        9 (Rolary ( Hora [1], 0.0, 1.0, 0.0);
        9 1201ate/ (Hela [2], 0.0,0.0,1.0);
       9 Draw Elements (GL-QUADS, 24.GL-UNSIGNED_BYTE, wichdow);
          9/Begin (GI-LINES);
          9 (varas (0.0,0.0,0.0);
          glverses (1.0,1.0,1.0);
          9 (Frd1);
           glichusht);
```

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nigs blou	iubeto	18
d	1 1 n 1 2 1 1 1 1	Y 1
delay	(10.01);	· · · · · · · · · · · · · · · · · · ·
thela	[axu] += 2.0;	
	Hualaris 7 3 60.0) Hichalary-	= 3 60 · D',
· ·	+ postReduplay();	
9		199 Top 1 1 1 1 1
3		T 1
uord mod	use (int btn, that state, int x,	rue 4)
1		
is (bt	N== CILUT-LIEFT-BUTTON +4 St	ale == GLUT-DOWN) 0x8=C
ge (b)	n = 2 GLUT-MIDDLE-BUTTON +F S	119th == GLUT - DOINN) axu=1
1/ (bt	n = = GLUT-REAMT-BUTTON 44 sta	x== GLU9 _ DOWN) 0\$4 = 13
<i>y</i> *	· p· trt, total	
	A Lig videl	· 3 · 101 · 2
vold m	Resphape (Int w, int h)	A control of the state of the s
1		
	(Newport (0,0, w,h);	
9	(Marriv Mode ( GL-PROJECTION);	
	1 Load Edertity (3)	
2.7	f (we=h)1	
	glortho(-2.0,20,-2.0+(	GLY 10at) h/(GLF 10at) w,
		1 (44, 100+)w, -10.0, 100)
		, , , , , , , , , , , ,
- //	clac	
	glorthol-2.0* (GLAbar)w	((GL ploat)h, 24.0 R
		HA, - 2.0, 2.0, -10.0, 10.0;
	9/Mamamode ( fil imposel i vi	ew);
y		100
	Teacher's Signat	ure

```
void mais (Int agre, chalt agri)
     gluttre + (+arse, argv);
    glut Dittouplay Mode (GLUT_SENGLE LALUT_RAB);
    glumouschene (mouse);
   9 (trable (NLDEPTH-TEST);
   9 1 Erable (176451-att (GL-CULOR_ARRAY);
  9/ Enable Cirentshare ( G. L. NORMAL MERAY);
  glerable Clientstate ( GL-VERTEX-ARRAY);
  gluera partos (3, GL-PLIDAT, 0, Nouverla);
  9 (color pointer (3, Gr-FLOAT, 0, Colors);
  gloomal points (hr-broat, o, normals);
  91 colorze (1.0,1.0,1.0);
  glutrais Loop ();
```

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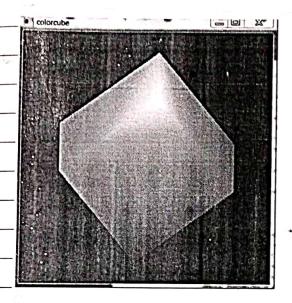
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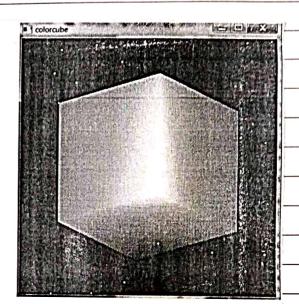
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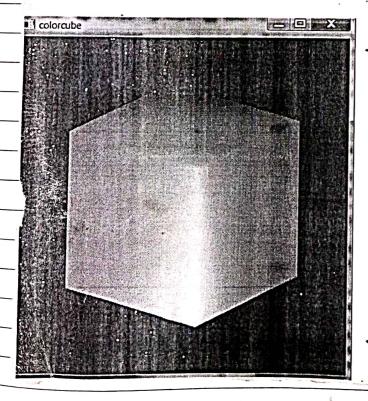
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Teacher's Signature