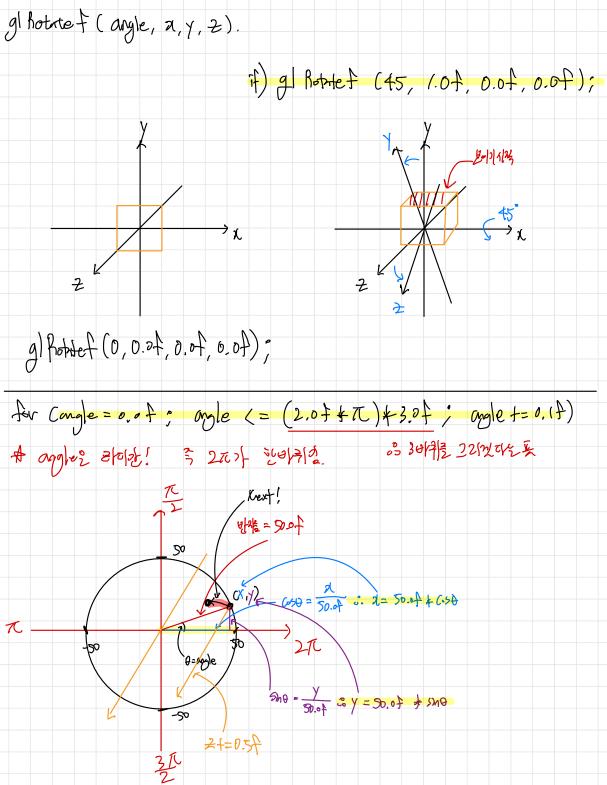
```
int main(int argc, char** argv) {
        glutInit(&argc, argv);如此
       glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB);
        glutInitWindowSize(500, 500);
        qlutInitWindowPosition(100, 100);
        glutCreateWindow("Simple");
       SetupRC(); लेलपु भारतसूर
       glutDisplayFunc(RenderScene); ਅਰਪ੍ਰ
     🛪 glutReshapeFunc(changeSize); বুছেণ্টু এব পালা এল্ডা প্রান্
       glutMainLoop();
                        至32000 部是是3.
 void SetupRC(void) { "Setup heder Scene"
          std::cout << "SetupRC" << std::endl;
          glClearColor(0.0f, 0.0f, 1.0f, 1.0f);
          97970 MPG 427. R G B alpha = 575.
```

```
GLfloat x, y, z, angle; // 정 x,Y,= 와 ayle(강)은 flat 병안전성
GLfloat pointSize; // *** 30 424
GLfloat sizes[2];
                                               如鸭 到光神时.
GLfloat step;
                                               3/2 STLESTOZ~ SWEST 12
glGetFloatv(GL_POINT_SIZE_RANGE, sizes);
                                                かとうたかと
glGetFloatv(GL_POINT_SIZE_GRANULARITY, &step);
pointSize = sizes[0];
glClear(GL_COLOR_BUFFER_BIT); 이번에 선생된 % 개석
qlPushMatrix();
glRotatef(45, 1.0f, 0.0f, 0.0f);
glRotatef(45, 0.0f, 1.0f, 0.0f);
GLfloat R=0.0f, G=0.0f, B=0.0f;
z = -50.0f;
float squareSize = 5.0f; // 정사각형 한 변 길이
float spacing = 0.5f;
                             // 점 간격
float halfSize = squareSize / 2.0f;
for (angle = 0.0f; angle <= (2.0f * GL_PI) * 3.0f; angle += 0.1f) {
    x = 50.0f * cos(angle);
    y = 50.0f * sin(angle);
    R = getRandomFloat();
                                  float getRandomFloat() {
    G = getRandomFloat();
                                    return (float)rand() / (float)RAND_MAX;
    B = getRandomFloat();
                                      0~1 400 世程至324 文从时日
    glColor3f(R, G, (B);
                                             从公元 切代计划 公公
    glPointSize(pointSize); // 점 크기
    glBegin(GL_POINTS);
    // 상단, 하단
    for (float dx = -halfSize; dx <= halfSize; dx += spacing) {</pre>
        glVertex3f(x + dx, y + halfSize, z); // 상단 변
        glVertex3f(x + dx, y - halfSize, z); // 하단 변
    }
    // 좌측, 우측
    for (float dy = -halfSize; dy <= halfSize; dy += spacing) {</pre>
        glVertex3f(x - halfSize, y + dy, z); // 좌측 변
        glVertex3f(x + halfSize, y + dy, z); // 우측 변
    }
   glEnd();
```

void RenderScene(void) {

```
z += 0.5f;
                            इंटरिने सेंग अहं गई
pointSize += step;
                              一小好想到意想。
if (pointSize > sizes[1]) {
   pointSize = sizes[1];
```

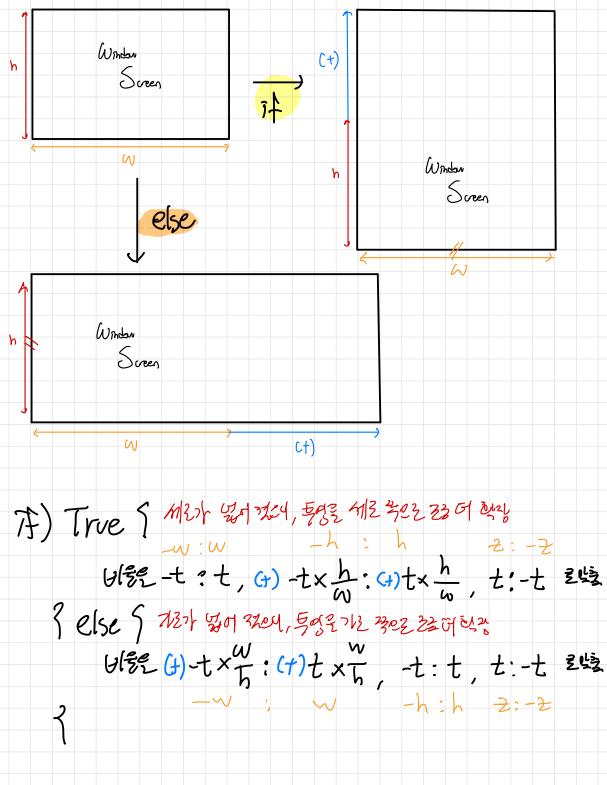
```
glPopMatrix();
glFlush();
}
```

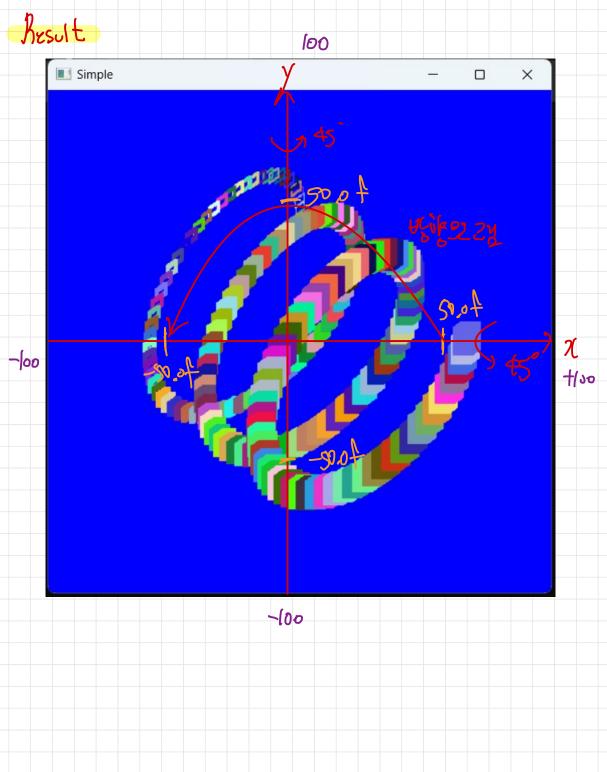


for (float dx = -half size; dx <= half size; dx += spacing) ं शुरुष 科 362 对外贸2 2211 95M for 28. gletasf(xtdx, ytholfsize, 2)
glvetosf(xtdx, y-holfsie, 2) 1 Ythelf Size (X14) Xthlfsice

y-half (ne
glvatus) (x-haltane, ytdy, z);
glvatus) (x+haltane, ytdy, z);

```
void changeSize(GLsizei w, GLsizei h) {
       GLint t = 100;
       GLfloat aspectRatio;
       if (h == 0) h = 1;
       glViewport(0, 0, w, h);
       glMatrixMode(GL_PROJECTION);
       glLoadIdentity();
       aspectRatio = (GLfloat)w / (GLfloat)h;
       if (w <= h) {
               glOrtho(-t, t, -t/aspectRatio, t/aspectRatio, t, -t);
        }
       else {
                glortho(-t*aspectRatio, t*aspectRatio, -t, t, t, -t);
        }
       glMatrixMode(GL_MODELVIEW);
       glLoadIdentity();
```





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