TUGAS 3 KOMPUTER GRAFIK (B)



DISUSUN OLEH:

Rezki anwar - 4520210033

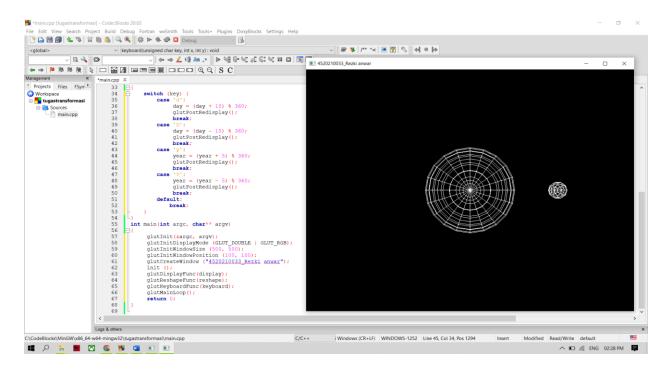
Teknik Informatika Universitas Pancasila Tahun ajaran 2022/2023

CODE PROGRAM:

```
#include<stdlib.h>
#include<GL/glut.h>
static int year = 0, day = 0;
void init(void)
   glClearColor (0.0, 0.0, 0.0, 0.0);
   glShadeModel (GL_FLAT);
void display(void)
   glClear (GL_COLOR_BUFFER_BIT);
   glColor3f (1.0, 1.0, 1.0);
   glPushMatrix();
   glutWireSphere(1.0, 20, 16); /* draw sun */
   glRotatef ((GLfloat) year, 0.0, 1.0, 0.0);
   glTranslatef (2.0, 0.0, 0.0);
   glRotatef ((GLfloat) day, 0.0, 1.0, 0.0);
   glutWireSphere(0.2, 10, 8); /* draw smaller planet */
   glPopMatrix();
   glutSwapBuffers();
void reshape (int w, int h)
   glViewport (0, 0, (GLsizei) w, (GLsizei) h);
   glMatrixMode (GL_PROJECTION);
   glLoadIdentity ();
   gluPerspective(60.0, (GLfloat) w/(GLfloat) h, 1.0, 20.0);
   glMatrixMode(GL_MODELVIEW);
   glLoadIdentity();
   gluLookAt (0.0, 0.0, 5.0, 0.0, 0.0, 0.0, 0.0, 1.0, 0.0);
void keyboard (unsigned char key, int x, int y)
  switch (key) {
     case 'd':
        day = (day + 10) \% 360;
        glutPostRedisplay();
        break;
     case 'D':
        day = (day - 10) \% 360;
        glutPostRedisplay();
        break;
     case 'y':
        year = (year + 5) \% 360;
        glutPostRedisplay();
        break;
```

```
case 'Y':
       year = (year - 5) % 360;
       glutPostRedisplay();
       break;
    default:
       break;
int main(int argc, char** argv)
  glutInit(&argc, argv);
  glutInitDisplayMode (GLUT_DOUBLE | GLUT_RGB);
  glutInitWindowSize (500, 500);
  glutInitWindowPosition (100, 100);
  glutCreateWindow ("4520210033_Rezki anwar");
  init ();
   glutDisplayFunc(display);
  glutReshapeFunc(reshape);
  glutKeyboardFunc(keyboard);
  glutMainLoop();
```

RUN PROGRAM:



tekan tombol 'y', 'Y', 'd' dan 'D' untuk menggerakkan objek:

