Nama: Rosyidah Amini Suci

NRP : 2103181045

Kelas: 3 D3 IT B

GRAFIKA KOMPUTER "PRIMITIV DRAWING"

Source Code

```
#include <GL/glut.h>
void userdraw(void);
void drawDot(float x, float y)
       glBegin(GL_POINTS);
       glVertex2f(250, 50);
       glEnd();
       glPointSize(7);
void setColor(float red, float green, float blue)
       glColor3f(red, green, blue);
}
void userdraw()
       glPointSize(8);
       setColor(1., 0., 1.);
       for (int i = 0; i < 20; i += 5)
              for (int j = 0; j < 20; j += 5)
                     drawDot(10.0 + i, 10.0 + j);
              }
       }
}
void display(void)
       //clear screen
       glClear(GL_COLOR_BUFFER_BIT);
       userdraw();
       glutSwapBuffers();
int main(int argc, char** argv)
       glutInit(&argc, argv);
       glutInitDisplayMode(GLUT_DOUBLE | GLUT_RGB);
       glutInitWindowSize(640, 480);
       glutInitWindowPosition(100, 150);
       glutCreateWindow("Grafika Komputer - Rosyidah Suci");
       glClearColor(1.0, 1.0, 1.0, 0.0);
       gluOrtho2D(0., 640., -240., 240.);
       glutIdleFunc(display);
       glutDisplayFunc(display);
       glutMainLoop();
       return 0;
}
```

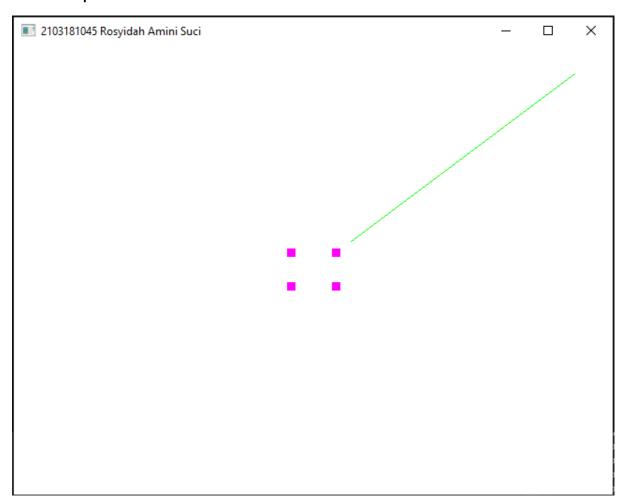
• Output

• Source Code

```
#include <GL/glut.h>
void titik_garis(void) {
       glColor3f(1.0, 0.0, 1.0);
      glPointSize(9);
       glBegin(GL_POINTS);
       glVertex3f(15.0, 15.0, 0.0);
       glVertex3f(-15.0, 15.0, 0.0);
      glVertex3f(-15.0, -15.0, 0.0);
      glVertex3f(15.0, -15.0, 0.0);
      glEnd();
      glColor3f(0.0, 1.0, 0.0);
       glBegin(GL_LINES);
       glVertex3f(25.0, 25.0, 0.0);
       glVertex3f(175.0, 175.0, 0.0);
      glEnd();
      glFlush();
void display(void) {
       glClear(GL_COLOR_BUFFER_BIT);
       titik_garis();
void Initialize(void) {
       glClearColor(1.0, 1.0, 1.0, 0.0);
       glMatrixMode(GL_PROJECTION);
       glLoadIdentity();
      gluOrtho2D(-200, 200, -200, 200);
}
```

```
void Initialize(void) {
      glClearColor(1.0, 1.0, 1.0, 0.0);
      glMatrixMode(GL_PROJECTION);
      glLoadIdentity();
      gluOrtho2D(-200, 200, -200, 200);
int main(int argc, char** argv) {
      glutInit(&argc, argv);
      glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB);
      glutInitWindowPosition(100, 150);
      glutInitWindowSize(640, 480);
      glutCreateWindow("2103181045 Rosyidah Amini Suci");
      Initialize();
      glutDisplayFunc(display);
      glutMainLoop();
      return 0;
}
```

Output



Source Code

```
#include <GL/glut.h>
void tv_rusak(void) {
       glColor3f(1.0, 0.0, 0.0);
       glPointSize(5);
       glBegin(GL_POINTS);
       for (int i = 0; i < 220; i++) {</pre>
              float a = (float)(rand() % 100);
              float b = (float)(rand() % 100);
              glVertex2f(a, b);
              glVertex2f(-a, b);
              glVertex2f(a, -b);
              glVertex2f(-a, -b);
       glEnd();
      glFlush();
void display(void) {
       glClear(GL_COLOR_BUFFER_BIT);
       tv_rusak();
void Initialize(void) {
       glClearColor(1.0, 1.0, 1.0, 0.0);
       glMatrixMode(GL_PROJECTION);
       glLoadIdentity();
      gluOrtho2D(-200, 200, -200, 200);
int main(int argc, char** argv) {
       glutInit(&argc, argv);
       glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB);
       glutInitWindowPosition(200, 200);
       glutInitWindowSize(400, 400);
       glutCreateWindow("2103181045 Rosyidah Amini Suci");
       Initialize();
       glutDisplayFunc(display);
       glutMainLoop();
       return 0;
}
```

Output

