```
#include <windows.h>
#include <GL/glut.h>
#include <math.h>
void circle(GLfloat rx,GLfloat ry,GLfloat x,GLfloat y)
{
  int i=0;
  float angle;
  GLfloat PI = 3.1416;
  glBegin(GL_POLYGON);
  glVertex2f(x,y);
  for(i=0;i<=360;i++)
  {
    angle = i*PI/180;
    glVertex2f(x+(cos(angle)*rx),y+(sin(angle)*ry));
  }
  glEnd();
}
void w(GLfloat rx,GLfloat ry,GLfloat x,GLfloat y)
{
  int i=0;
  float angle;
  GLfloat PI = 3.1416;
  glBegin(GL_POLYGON);
  glVertex2f(x,y);
  for(i=0;i<=30;i++)
  {
    angle = i*PI/180;
```

```
glVertex2f(x+(cos(angle)*rx),y+(sin(angle)*ry));
  }
  glEnd();
}
void w1(GLfloat rx,GLfloat ry,GLfloat x,GLfloat y)
{
  int i=0;
  float angle;
  GLfloat PI = 3.1416;
  glBegin(GL_POLYGON);
  glVertex2f(x,y);
  for(i=60;i<=90;i++)
  {
    angle = i*PI/180;
    glVertex2f(x+(cos(angle)*rx),y+(sin(angle)*ry));
  }
  glEnd();
}
void w2(GLfloat rx,GLfloat ry,GLfloat x,GLfloat y)
{
  int i=0;
  float angle;
  GLfloat PI = 3.1416;
  glBegin(GL_POLYGON);
  glVertex2f(x,y);
  for(i=120;i<=150;i++)
  {
    angle = i*PI/180;
```

```
glVertex2f(x+(cos(angle)*rx),y+(sin(angle)*ry));
  }
  glEnd();
}
void w3(GLfloat rx,GLfloat ry,GLfloat x,GLfloat y)
{
  int i=0;
  float angle;
  GLfloat PI = 3.1416;
  glBegin(GL_POLYGON);
  glVertex2f(x,y);
  for(i=180;i<=210;i++)
  {
    angle = i*PI/180;
    glVertex2f(x+(cos(angle)*rx),y+(sin(angle)*ry));
  }
  glEnd();
}
void w4(GLfloat rx,GLfloat ry,GLfloat x,GLfloat y)
{
  int i=0;
  float angle;
  GLfloat PI = 3.1416;
  glBegin(GL_POLYGON);
  glVertex2f(x,y);
  for(i=240;i<=270;i++)
  {
```

```
angle = i*PI/180;
    glVertex2f(x+(cos(angle)*rx),y+(sin(angle)*ry));
  }
  glEnd();
}
void w5(GLfloat rx,GLfloat ry,GLfloat x,GLfloat y)
{
  int i=0;
  float angle;
  GLfloat PI = 3.1416;
  glBegin(GL_POLYGON);
  glVertex2f(x,y);
  for(i=300;i<=330;i++)
  {
    angle = i*PI/180;
    glVertex2f(x+(cos(angle)*rx),y+(sin(angle)*ry));
  }
  glEnd();
}
void display() {
  glClearColor(1.0f, 1.0f, 1.0f, 1.0f);
  glOrtho(-100, 100, -100, 100, -100, 100);
  glClear(GL_COLOR_BUFFER_BIT);
```

```
//black circle
  glColor3f(0, 0, 0);
  circle(51, 51, 0, 0);
  // red circle
    glColor3f(1, 0, 0);
  circle(40, 40, 0, 0);
//black circle 2
  glColor3f(0, 0, 0);
  circle(38, 38, 0, 0);
  glColor3f(1, 1, 1);
  w(38, 38, 0, 0);
    glColor3f(1, 1, 1);
  w1(38, 38, 0, 0);
    glColor3f(1, 1, 1);
  w2(38, 38, 0, 0);
       glColor3f(1, 1, 1);
  w3(38, 38, 0, 0);
```

```
glColor3f(1, 1, 1);
  w4(38, 38, 0, 0);
       glColor3f(1, 1, 1);
  w5(38, 38, 0, 0);
//green cricle
  glColor3f(0, 1, 0);
  circle(27, 27, 0, 0);
//black circle 3
  glColor3f(0, 0, 0);
  circle(25.5, 25.5, 0, 0);
     glColor3f(1, 1, 1);
  w(25.5, 25.5, 0, 0);
    glColor3f(1, 1, 1);
  w1(25.5, 25.5, 0, 0);
    glColor3f(1, 1, 1);
  w2(25.5, 25.5, 0, 0);
       glColor3f(1, 1, 1);
  w3(25.5, 25.5, 0, 0);
       glColor3f(1, 1, 1);
  w4(25.5, 25.5, 0, 0);
```

```
glColor3f(1, 1, 1);
  w5(25.5, 25.5, 0, 0);
  //green cricle 2
  glColor3f(0, 1, 0);
  circle(10, 10, 0, 0);
//red cricle 2
  glColor3f(1, 0, 0);
  circle(5, 5, 0, 0);
  glFlush();
}
int main(int argc, char** argv) {
  glutInit(&argc, argv);
  glutCreateWindow("Simple Line Strip");
  glutInitWindowSize(520, 520);
  glutInitWindowPosition(50, 50);
  glutDisplayFunc(display);
  glutMainLoop();
  return 0;
}
```