```
#include <GL/gl.h>
#include <GL/glut.h>
#include<bits/stdc++.h>
static float tx = 0.0;
static float ty = 0.0;
float angle = 0.0;
void circle(GLfloat rx, GLfloat ry, GLfloat cx, GLfloat cy, int x, int y)
{
  glBegin(GL_TRIANGLE_FAN);
  //glColor3f(1.0f, 0.0f, 0.0f);
  glVertex2f(cx, cy);
  for (int i = x; i \le y; i++)
  {
     float angle = 2.0f * 3.1416f * i / 100;
    float x = rx * cosf(angle);
    float y = ry * sinf(angle);
    gIVertex2f((x + cx), (y + cy));
  }
  glEnd();
}
void triangle(double x, double y)
```

```
{
  glBegin(GL_POLYGON);
  glVertex2d(x, y);
  gIVertex2d(x + 20, y + 19.7);
  gIVertex2d(x + 20, y + 9.6);
  glEnd();
}
void legs(double x, double y)
  glColor4f(1.0f, 1.0f, 0.0f, 0.0f);
  glBegin(GL_POLYGON);
  glVertex2d(x, y);
  gIVertex2d(x + 5, y);
  gIVertex2d(x + 5, y - 20);
  gIVertex2d(x + 0, y - 20);
  glEnd();
  glBegin(GL_POLYGON);
  glVertex2d(x - 8, y - 20);
  glVertex2d(x + 8, y - 20);
  gIVertex2d(x + 8, y - 23);
  glVertex2d(x - 8, y - 23);
  glEnd();
void tail(double x, double y)
  glColor4f(1.0f, 0.0f, 0.0f, 0.0f);
  glBegin(GL_POLYGON);
  glVertex2d(x, y);
```

```
gIVertex2d(x, y + 10);
  gIVertex2d(x + 20, y + 10);
  gIVertex2d(x + 20, y);
  glEnd();
}
void display(void)
  /* clear all pixels */
  glClear(GL_COLOR_BUFFER_BIT);
  glColor3f(0.0f, 0.8f, 0.1f);
  glRectf(-100, -20, 100, -100);
  glBegin(GL_POLYGON); // tail
  glColor3f(0.9, 0.5, 0.2);
  glVertex2f(0, 0);
  glVertex2f(60, -30);
  glVertex2f(60, -35);
  glVertex2f(0, -35);
  glEnd();
  /*=========*/
  glColor3f(0.1f, 0.1f, 0.5f);
  circle(20, 20, -20, 10, 0, 100);
```

```
/*======END======*/
  /*First part of capsul*/
  glColor4f(1.0f, 0.0f, 0.0f, 0.0f);
  glRectf(-20, 60, 20, 20);
  glColor4f(1.0f, 0.0f, 0.0f, 0.0f);
  circle(20, 20, 0, 60, 0, 50);
 /*----*/
/*Second part.....*/
  glColor4f(1.0f, 1.0f, 0.0f, 0.0f);
  glRectf(-20, 30, 20, -20);
  glColor4f(1.0f, 1.0f, 0.0f, 0.0f);
  circle(20, 20, 0, -20, 50, 100);
  /*----*/
//=====Legs======
//=====END=======
/* =======Eyes======*/
  glColor4f(1.0f, 1.0f, 1.0f, 0.0f);
  circle(10, 10, -20, 55, 0, 100);
  circle(10, 10, 2, 55, 0, 100);
```

```
glColor3f(0.0f, 0.0f, 0.0f);
  circle(4, 4, -2, 53, 0, 100);
 circle(4, 4, -17, 53, 0, 100);
 /*=======*/
/*****BEAK**************/
 glColor4f(1.0f, 1.0f, 0.0f, 0.0f);
  triangle(-30, 30);
  circle(5, 5, -10, 44, 75, 130);
  /*===========*/
  glColor3f(0.1f, 0.1f, 0.5f);
  circle(20, 20, 10, 8, 10, 60);
  glBegin(GL_POLYGON);
 glColor3f(0.1f, 0.1f, 0.5f);
  glVertex2d(-7, -2.8);
  glVertex2d(26, 20);
  glVertex2d(40, -30);
  glVertex2d(19.5, -30);
  glEnd();
  circle(10, 10, 30, -30, 50, 100);
```

```
/*======EGS======*/
  legs(5, -33);
  legs(-10, -30);
 /*=====END======*/
 // glBegin(GL_LINES); // nasim line draw
 // glColor3f(1, 1, 1);
 // glVertex3i(-100, 0, 0);
 // glVertex3i(100, 0, 0);
 // glEnd();
 // glBegin(GL_LINES); // nasim line draw
 // glColor3f(1, 1, 1);
 // glVertex3i(0, 100, 0);
 // glVertex3i(0, -100, 0);
 // glEnd();
  //tail(0, -6);
  glFlush();
```

}

/\*======END======\*/

```
void init(void)
  /* select clearing (background) color */
  glClearColor(0.0, 0.0, 1.0, 0.0);
  /* initialize viewing values */
  glMatrixMode(GL_PROJECTION);
  glLoadIdentity();
  glOrtho(-100.0, 100.0, -100.0, 100.0, -10.0, 10.0);
  //-x,x,-y,y
}
* Declare initial window size, position, and display mode
* (single buffer and RGBA). Open window with "hello"
* in its title bar. Call initialization routines.
* Register callback function to display graphics.
* Enter main loop and process events.
int main(int argc, char** argv)
  glutInit(&argc, argv);
  glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB);
  glutInitWindowSize(800, 800);
  glutInitWindowPosition(100, 100);
  glutCreateWindow("Tuaha is a good boy");
  init();
  glutDisplayFunc(display);
  glutMainLoop();
  return 0; /* ISO C requires main to return int. */
}
```